ANNUAL REPORT WATER DIVISION 5

I. WATER ADMINISTRATION

A. 1990 Water Year

This year Division 5 experienced a great many things, including a fairly serious drought. We've played catch-up in many areas, continued training and data collection, and of course focused much of our efforts on the work of water administration.

In review it's clear that the good of 1990 includes many accomplishments in administration, updating tabulation information, attendance at both organized and informal meetings with the water user community, and a stabilization of the dams and reservoir inspections. The office staff has remained stable which has helped the water commissioners in their daily attacks on the work load. And the closer we get to a complete understanding on Green Mountain exchange operations, the better job we can do on handling a total river call.

Unbudgeted expenditures for 1990 were held in check. This was in comparison to the Division overspending by nearly \$4000 in 1989. We are faced with the continuing task of trying to do more with less. This is challenging and also proves difficult.

The 1990 water commissioner situation was somewhat improved over the previous year as only 3 of the 17 commissioners were new to the position they occupied at the start of the year. Retirements and transfers that have plagued the staff were minimal. This has had a beneficial impact on training demands and water administration in a stressful drought year.

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.

In the area of completing the jobs required of us, we did finish and sign the 1989 diversion records and are closing in on those for 1990.

With the help of the information section we designed diversion record sheets which included permanent water rights and structure information from the Rights and WISP databases. This greatly enhanced the commissioners' ability to handle more data with better

ANNUAL REPORT WATER DIVISION 5

TABLE OF CONTENTS

				PAGE
ı.	WATI	ER ADM	INISTRATION	
	A.	1990	Water Year	1
		1.	Accomplishments	1
		2.	Involvement in the Water User Community	4
		3.	Issues Impacting Division 5	6
		4.	Issues of Concern	8
		5.	Effect of Workload Changes	9
		6.	Impact of the Budgets on Operations	10
	В.	1991	Water Year	11
		1.	Operational Concerns	11
		2.	Projected Work Items for 1991	12
		3.	Goals and Objectives	14
ıı.	STAT	ristic	AL INFORMATION	
	A.	Trans	smountain Diversion Summaries	15-17
	В.	Rese	rvoir Storage Summaries	18-34
	C.	Wate	r Diversion Summaries By District	35-36
	D.	Water	r Court Activities	37
	E.	Offic	ce Administration	37-38
	F.	Color	1990 rado River Calls For 1989	39
APPEN APPEN APPEN	DIX C	3: A C: Da	ivision 5 Staff Meeting Agenda for Annual Report Prepara Water Commissioner Submittal for Staff Meeting Agenda am Safety Engineer's Goals and Work Items - 1991 nnual Water Diversion Statistical Summary Reports	tion (1 pg) (3 pp) (2 pp)

quality control. This in turn allowed for more emphasis to be put into administration which was fortunate considering the extremely dry year. The commissioners also had better administrative lists to work from as our collective computer literacy permitted them to be developed.

The annual upgrade of the previous years' signed decrees were also added to the Tabulation as were about half of the outstanding augmentation plans.

This year abandonments were again a big time-consumer with the commissioners fine-tuning the Current-In-Use codes (CIU) in the structure lists and the Non-Use-Codes (NUC) from the diversion records. The abandonment lists were prepared and published as required. Protests to it are in the process of being field inspected before finalization for submittal to the Water Court in 1991. There were 600 water rights on the published abandonment list for Water Division 5.

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

Water Commissioners eliminated in some cases or substantially reduced Current-In-Use codes of "E" and "F" in their diversion records. Also several began the administration of smaller diversions heretofore ignored, such as smaller, very remote ditches, springs, and wells.

Of the 350 new water court applications filed in Water Division No. 5, 324 were processed this year for Division 5 with the appropriate field inspections, consultations, objections, and other assorted work accomplished. This corresponds to 328 applications processed in 1986, 398 for 1987, 483 for 1988, and 288 for 1989.

Hydrographic work on the Fryingpan-Arkansas Project was completed as required, as were a substantial number of the backlog of unworked records. Additional measurements for administrative purposes were made and were extremely helpful in areas that do not ordinarily have calls. Reconstruction of the bridge at the North Fork of the Fryingpan and a cableway at Thomasville were welcome accomplishments.

Having the resident Dam Safety engineer continued to pay results. Not only are the dams being inspected, etc., but the personal touch is paying off in increased efforts by owners to upgrade their structures. Water Commissioner understanding and administracize levels have increased as well. There is definite positive public relations through it all.

The transfer of supervision to the division offices will be another very important step in the process of providing the public with the most for their money in dam safety.

Seventy-one (71) regular S.E.E.D. (Safety Evaluations of Existing Dams) inspections, 9 construction inspections, and 18 follow-up inspections were done by the Dam Safety Engineer and 12 required of the Water Commissioners. Thirty (30) restricted reservoirs were monitored by the water commissioners; new restrictions were placed on 3 reservoirs; and restrictions were removed from 4 reservoirs with 4 more waiting for as-built approval. All Class 1 dams had hydrology studies completed. Major repairs were finished on 5 dams, 2 breach orders were rescinded, 1 breach order was extended, and 2 dams were downgraded to Class 4 (pending approval in Denver).

A "Reservoir Capacity Table" book for the Division was started with 19 new tables developed.

Well inspections were made as absolutely necessary but generally lagged as the inspector's primary duties were directed toward filling in on necessary administration.

A total river call was administered much of the year -- not perfectly by any means -- but many of the individual parts are coming together. Water Commissioner understanding and ability to timely deliver real-time diversion data is increasing. Satellite-supplied data as well as user-supplied information is now possible, and for the third year the records reflect replacements from Green Mountain Reservoir and the exchanges involved. It is very exciting to see this take shape. Several more spreadsheets and it will get even better.

One long-awaited personnel change was accomplished with the establishment by the legislature of a District 36 water commissioner. That position was filled September 1 and we are now in a learning curve with it. The hirings and transfers of the years before are beginning to pay big dividends but it has taken a lot of effort and made possible by a temporarily unfilled position.

Three other very effective personnel moves were tried and worked very well. The most advantageous was the hiring of a temporary secretary while the permanent secretary was on vacation. The temporary was brought on line a week early and stayed three extra weeks for a total of six weeks. The second was the three-month hiring of a student who beefed up the hydro work. Finally, a temporary water commissioner was put on line when it was absolutely necessary to turn reservoir water on Grand Mesa.

The Division Engineer, Assistant, and other office engineers all got in some excellent cross training under fire as water commissioners. All of the regular water commissioners as well as the engineers have been involved with orientation of new personnel and ongoing training of each other, sharing their various expertise. Additionally many Division 5 personnel attended a four-part Colorado Mountain College (CMC) management training session in Glenwood Springs, Carbondale, and Rifle. In addition, each employee was given a performance evaluation and has a new plan in place.

In the area of <u>resource management</u> we were able to temporarily get additional office space for the winter in order to have water commissioners work in the Glenwood office. That space is now under permanent lease.

During the winter the water commissioners revised and upgraded their administrative lists. They also made many contacts regarding the installation or resetting of measuring devices; 45 orders were subsequently sent out. In conjunction with the Dam Inspector, 3 new reservoir staff gages were installed with corresponding capacity tables supplied and 3 existing staff gages were repaired.

We did not have funds for capital goods but did divert small amounts of operating money to purchase used goods through the government resale program. However, at fiscal year end, we did receive and put to good use two file cabinets, two computer work stations, and an executive chair.

We also received another IBM-compatible PC purchased through funding trade-offs associated with the contract operation of Aspen's Roaring Fork River gage and satellite monitoring hardware.

Still in the area of accomplishments, not enough can be said about the satellite monitoring system itself, along with the PC's that came with it. Our ability to administer and record has truly been revolutionized as we train ourselves to utilize the storage, manipulation, and communication capabilities of the system.

Likewise, a computerized well database is up and running. It is used daily to handle all kinds of problems in dealing with the public.

2. Involvement in the Water User Community

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.

Specific meetings were held with: Mesa and Spring Creek water users, Bull Creek water users, Mesa County Planning Association, Big Creek water users, Pitkin County and Aspen planners and attorneys, Town of Gypsum officials and other water users, Summit County Small Reservoir Study Group, realtor groups, Well Drillers Association, Northwest Council of Governments (COG), Colorado River Water Conservation District, U.S. Bureau of Reclamation, Denver Water Conservation Board, Northern Colorado Water Conservancy District (WCD), West Divide WCD, Basalt WCD, numerous ditch companies, the Governor's "Dome on the Range," SB-181 water quality meeting attendees, and attendees of "Colorado Water Allocations: The Next 100 Years," a program for the public in Division 5 sponsored by the Colorado Endowment for the Humanities.

One of the more important involvements was the continued effort to work very closely with the Denver Water Board, Northern, Colorado Springs, U.S. Bureau of Reclamation, Colorado River Water Conservation District, and the Colorado Water Conservation Board in the "Clarification of Division 5 Water Administration" including exchange administration, Green Mountain Reservoir, the Blue River decrees and related cases. A final stipulated settlement between all factions, including many other West Slope entities, has yet to be signed but has gotten close. This would come under the several topics of public, self, and interagency education through mutual communication efforts. (The Blue River cases are proceeding in the Federal District Court, which will have a bearing on this.)

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, relatively new DIVERSION DEMANDS on a limited water supply are creating all kinds of pressures.

- (1) * The rapid growth in the high country and associated 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.
- (2) East Slope demands such as Windy Gap, Northern Colorado's major transmountain water diversion, will come on-line and effectively deplete 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 accounting to track water exchanged up the Blue River for snow making and municipal uses.
- (3) 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.
- (4) 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.
 - * A District 36 water commissioner was authorized and hired September 1, 1990. This should help the situation.

(5) A major agreement was worked out 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 River and Williams Fork River, including Green Mountain Reservoir. Fortunately, all of this will be developed very slowly which gives us time to work out the administrative details.
(6) The entry and demise of the oil shale industry has affected Division 5. Conditional water rights have been left undeveloped; water rights that were transferred from

- (6) The entry and demise of the oil shale industry has affected Division 5. 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 its rights but the population growth pressures associated with it have waned.
- (7) Currently the cost/benefit ratio of agriculture is marginal. Therefore, there is little incentive to use water and maintain agriculture as historically practiced. As a result ranches are being divided up into smaller acreages.
- (8) 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.
- (9) San Diego, Las Vegas, and others are looking for water with interstate sales and transfers being actively contemplated.

Second, as the year progressed it became more evident that current pressures are building in the area of "PUBLIC INTEREST VALUES." This is an issue fraught with potential impact on Division 5 and its functioning.

(1) Conflicts over complex water demands require time and energy for the staff as the precious commodity, water, is bought and sold while in the legal arena very definite demands are set forth for its use. Minimum stream flows, endangered species requirements, and wetlands depletion considerations are only a few of the newer demands that must be weighed as the staff makes decisions concerning administration.

(2) Although at-point water quality concerns have not directly impacted the Division, it seems inevitable that the future holds challenges in this area. With quality concerns having a widespread focus, it seems only a matter of time before wilderness areas, "natural habitats," municipal waters, streams flowing outside state boundaries to neighboring states, groundwater and recreational waters have standards that need monitoring. Is it feasible that a new state department be established or that counties take over the quality policing?

Because quality and quantity of water are so closely related (e.g., a 10 ppb iron quality standard can be reached by "flooding" a stream that is at a 15 ppb level), it seems reasonable that administration of both be handled out of the same offices.

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

The main concern is the reduced ability of the staff to accomplish all that needs to be done in almost any area. The continuing areas of concern are:

- -- Existing mapping is wearing out and needs replacement.
- -- Do not have the hydrographic staff to handle the river accounting. [See Notes (1) through (3) on next page]
- -- Gasoline prices are escalating.
- Number and complexity of augmentation plans are prohibitive to administer with existing staff until software and databases are developed along with appropriate accounting sheets.
- -- Some work is still needed on the tabulation. We need to include and/or revise augmentation entries.
- Ten percent of diversion structures have no record at all, while others are very minimal with a smattering of user-supplied data.
- -- Administration of springs, wells, and gravel pits will be difficult.
- Staff gages and capacity tables are still needed for many reservoirs.

Dealing effectively with protests to abandonment list.
 Many structures have no control and/or measuring devices.

There is still somewhat of a power struggle between the Division and the Dam Safety Section.

- -- Controlling diversions on wheels as pumper trucks haul water for gas well drilling.
- -- Retirements, etc., have created a very new work force which will take time and resources to develop.
- -- Well inspections need to be increased as inconsistencies are increasingly evident.
- -- Budget constraints are deepening.
- -- The hiring freeze may prohibit replacement of 4 retirees.
- -- Judicial decisions (while much better) continue to be made with immediate caseload efficiency in mind rather than astute sensitivity to water laws wherein stipulated settlements are reached. However, there will be a new Water Judge.
- Note (1) 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.
- Note (2) 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 is just now beginning with a new Water Commissioner.
- Note (3) 300,000 to 500,000 acre-feet of diversions are not monitored for accuracy by any neutral party, which creates nervousness and feeds East Slope/West Slope tensions.

5. Effect of Workload Changes

The biggest impacts were due to tougher administration resulting from a drought complicated by several vacancies in water commissioner positions.

On the up side, the hiring of a temporary secretary really helped relieve paper congestion and data input in the office.

The increased efforts in communications within and outside of the agency as well as expanded public interaction takes time but is paying dividends already, in acceptance by the water-using public. This year that was really evident in the reservoir inspection area.

Additional water rights add work but in this case the rate of addition slowed over the previous year. The abandonment list preparation added some work certainly as did the general upgrading of the recordkeeping process.

6. Impact of the Budgets on Operations

We do not have enough FTE's to put Water Commissioners in each water district. Additionally, 12 of the 18 Water Commissioners are part-time employees and the seasonal nature of their employment severely hampers the updating of structure lists, administrative lists, tabulations, maps or any other non-direct water administration activity. Another problem is that as the jobs are becoming more complex, adequate training is harder to achieve. The pressure for part-timers to seek full-time employment is a problem. Two-thirds of the Water Commissioner work force is in this situation.

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 at a less than desirable level.

In travel we curtailed back on a percentage basis from previous years' expenditures. It is in the this area that it's easiest to make up deficiencies. As we travel less, we will have to rely more on user-supplied information.

The bottom line is that unlike previous years where we spent what was needed and consequently overspent, the budget this year matched the budget and cut service.

B. 1991 Water Year

This coming year will probably find Division 5 again facing some of the good, the bad, and the ugly. We hope to keep the ugly to a minimum and watch for the good.

Hopefully, staffing and training will stabilize so that the operation of the work force can be at maximum output and we can work to see our specific goals met.

1. Operational Concerns

In order of importance based on what happened last year, I believe that toeing the line on expenditures will be more difficult without decreasing service. Training needs of the new employees will be critical — assuming there will be new employees in view of the hiring freeze, or even more critical: how do we provide service without the employees?

Field inspections regarding abandonments, water right applications, and well replacements will also be costly, time consuming, and necessary.

Quality control and data handling capability and systems design for user-supplied information is becoming increasingly important and will receive some attention.

Lastly, the people, the governor, and the legislature all talk of water planning and management, public benefits, and water quality. The discussion of these issues has been fragmented and unfocused — even ill—informed. The debate is laced with buzz words that mean different things to different people, with confused analyses which mix the ends to be achieved with the means of achieving those ends, and with misunderstandings and misconceptions about Colorado's current laws and policies. Whatever one's point of view about those issues, Colorado clearly has yet to reach a consensus on how they should be addressed. In the meantime, as administrators we make many decisions with regard to beneficial use and waste of water and hopefully won't catch too much heat or lawsuits in those decisions.

SB-158 was an offshoot of the above and something similar may take its place this year. However, in such unsettled times, some bill nearly the opposite could have just as much support.

2. Projected Work Items for 1991:

The usual business of:

- A. Administering water,
- B. Collecting and recording diversion data,
- C. Reservoir inspections,
- D. Well inspections,
- E. Hydrographic work, and
- F. Reviewing water applications.

The following are specialized work items for 1991 and beyond:

- A. Train Water Commissioners in:
 - 1. Standardization of municipal record keeping.
 - 2. Field inspecting augmentation plans.
 - 3. Creating schematics and coding for augmentation plans.
 - 4. Administration of reservoirs.
 - 5. Administration of exchanges.
 - 6. Computer usage.
- B. Inventory all fee wells and generate records. (Proposal to spend SB 200 funds to accomplish) *
 - 1. Determine locations and establish mapping accordingly.
 - 2. Determine usage.
 - 3. Determine compliance with permit and decree.
 - Prepare ownership directory.
 - 5. Send orders.
 - * Project wasn't authorized in 1990 and is re-requested.
- C. Lower the "NUC = No information available" level by 30 in each water district.
- D. For Augmentation Plans:
 - 1. Finish tabulation of augmentation plans.
 - 2. Establish an augmentation plan data base that can be used for administration.
 - 3. Establish an accounting system for each active augmentation plan.
 - 4. Install control structures and measuring devices as necessary.
 - 5. Obtain field data.
 - 6. Administer.

- E. Add 1989 and 1990 decrees to Tabulation.F. Add 1989 and 1990 decrees to Structure Lists.G. Develop computer accounting spreadsheets for:
 - 1. Blue River Diversion Project
 - 2. Continental-Hoosier System,
 - 3. McMahon/Red Dirt System.
- H. River Accounting Spread Sheet increase utility by:
 - 1. Phasing in hydrographic support,
 - 2. Utilizing real-time diversion data,
 - 3. Mixing and matching from various spreadsheets.
- I. See Appendix B for Proposed Dam Safety Work Items for 1991.
- J. Write Individual Performance Objectives (IPO's) for Water Commissioners on diversion data and annual record submittals.
- K. Organize and implement program for hydrographic data collection for Division 5, including appropriation of money from legislature for same.
- Inventory gravel pits. (Proposal to spend SB 200 funds to accomplish)Using aerial photos for dating:
 - 1. Plot on mapping.
 - 2. Prepare directory of owners.
 - 3. Work to bring those needed into well permit compliance.
- M. Inventory and perform an on-site inspection of all test wells and monitoring holes. (Proposal to spend SB 200 funds to accomplish)
 - 1. Take steps necessary to bring them into compliance with State regulations.
 - 2. Insure proper abandonment where necessary.
- N. Design system to notify public of calls.
- O. Design system to solicit user-supplied information.
- P. Complete backlog of hydrographic records.
- Q. Implement a secretarial handbook.

3. Goals and Objectives

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

A. Water Rights Management

- 1. Establish the capability to administer a total river call prompted by either in-state priorities or an interstate water compact requirement.
- Uphold all other statutory duties of the State Engineer's office.

B. Water Records and Information

- 1. Provide the public with service regarding water usage.
- 2. Address the public's 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 of water rights.* 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 goals as more of the work projects are completed.

We are much closer to obtaining these objectives because of the past year's accomplishments. The prospects for the upcoming year look challenging.

^{*} We should have a complete and reliable tabulation of permitted wells and, likewise, a complete and reliable dams database.

Revised 4/91

TRANSMOUNTAIN DIVERSIONS SUMMARY

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							Fruita Water Works	Grand Junction Municipal	Redlands Power Canal		Stillwater Ditch	Dome Creek Ditch		Sarvis Creek Ditch		Divide-Highline Feeder		Roaring Fork Bypass Flow	NAME		0
TOTAL DIV 5 IMPORTS:							Colorado River	Colorado River	Colorado River		Egeria Creek	Egeria Creek		Red Dirt Creek		Divide Creek		Roaring Fork River	STREAM	VECT LIENT	מייייייייייייייייייייייייייייייייייייי
533,904							0	6,695	519,252		2,560	58		1,667		2,086		1,586	AF	IPREVIOUS	
1554							0	365	323		107	49		350		56		304		JS IYR	
553,254							0	5,980	538,683		4,138	58		1,295		1,428		1,672	H	IYR OF	
1,528	_						0	365	362		100	NIA		365		55		281	DAYS	RECORD	
							73	42	42		58	58		58		40		11	ð		
							Little Dolores River	Kannah Creek	Gunnison River		Bear Creek	Bear Creek		Sarvis Creek		Clear Fork Muddy Cr.		Turquoise River	STREAM	SOURCE	

Revised 4/91

TRANSMOUNTAIN DIVERSIONS SUMMARY WATER DIVISION V

-EXPORTS

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					Twin Lakes Tunnel	Busk-Ivanhoe Tunnel	Boustead Tunnel		Wurtz Ditch	Homestake Tunnel	Ewing Ditch	Columbine Ditch		Roberts Tunnel	Hoosier Tunnel	Boreas Pass Ditch	Vidler Tunnel	Straight Creek Tunnel	NAME		
PAGE 1 SUBTOTALS:					Lake Fork Creek	Lake Fork Creek	Lake Fork Creek			South Platte via Arkansas River	Tennessee Creek	Tennessee Creek		Main Fork of South Platte River	Main Fork of South Platte River	7all (Clear Creek	Clear Creek	STREAM	RECIPIENT	711011111111111111111111111111111111111
92,232					37,390	3,750	37,140		2,070	22,760	786	1,420		۲	10,720	0	966	820	AF ID	NT	
2,123					365	192	94		127	199	152	114		265	130	0	120	365	DAYS		
195,					43,634	5,236	47,410		1,567	25,997	812	1,485		56,858	11,130	0	668	434	AF AF		
231 1,965					365	174	166		89	92	189	78		197	136	0	114	365	DAYS		
					38	38	38		37	37	37	37		36	36	36	36	36	ð		-
					Roaring Fork River	Fryingpan River	Fryingpan River		South Fork of Eagle River	, , ,	South Fork of Eagle River	South Fork of Eagle River		Blue River	Blue River	Blue River	Snake River	Straight Creek	STREAM	SOURCE	(Page 1 of 2)

TRANSMOUNTAIN DIVERSIONS SUMMARY WATER DISIVION V - EXPORTS

(Page 2 of 2)

				RECIPIENT	T				SOURCE
			,	PREV.	I YR	IYR OF	REC		
	WD	NAME	STREAM	AF	DAYS	AF	DAYS	WD UW	STREAM
	w	Grande River Ditch	Cache La Poudre Rvr	18,680	162	20,982	138	51	N. Fk Colorado Rvr
	ω	Eureka Ditch	Cache La Poudre Rvr	(est) 40	AIN	88	73	51	N. Fk Colorado Rvr
	4	Alva B. Adams Tunnel	Big Thompson River	275,100	365	202,845	341	51	N. Fk Colorado Rvr
	6	Moffat Tunnel	Boulder Creek	64,890	365	68,428	365	51	Fraser River
	7	Berthoud Pass Ditch	Clear Creek	0	0	637	124	51	Fraser River
···	16	August P Gumlick Tunnel	Boulder Creek via Fraser River	INCLUSIVE	NI	MOFFAT TUNNEL	NEL	51	Williams Fork Rvr
	6	Vasquez Pipeline	Boulder Creek via Fraser River	INCLUSIVE	N	MOFFAT TUNNEL	NEL	51	Williams Fork Rvr
	40	Leon Tunnel Canal	Surface Creek	1,577	80	1,132	84	72	Leon Creek
·····						f			
			PAGE 2 SUBTOTALS	360,287	972	294,112	1,125		
			PAGE 1 SUBTOTALS	192,232	2,123	195,231	1,965		
			TOTAL DIV 5 EXPORTS	552,519	3,095	487,343	3,090		

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					 	 	 				ļ					36			
							Way Reservoir	Upper Blue Lake Res	Upper Black Creek Res	Reynolds Reservoir	Hoagland Reservoir No 1	Green Mountain Reservoir	Goose Pasture Tarn	Dillon Reservoir BRDP	Cataract Lake	Black Lake		RESERVOIR NAME	
TOTALS:							Springs Creek	Blue River	Black Creek	Keystone Creek	Elliott Creek	Blue River	Blue River	Blue River	Cataract Creek	Black Creek		SOURCE	STREAM
329,743							25	0	650	157	35	86,630	900	237,697	1,652	1,997	Ą	Beg. IYR	PRI
417,638							80	2,119	660	157	100	152,158	900	257,815	1,652	1,997	Z AF	Beg. Irr. Season	PREVIOUS IYR
328,159							75	0	655	157	35	72,669	912	250,004	1,652	2,000	AF	son Beg. IYR	IYR OF
393,418							94	2,119	655	157	109	151,400	912	234,282	1,650	2,000	% AF	Beg.Irr.	F RECORD
330,311							30	0	595	157	18	71,113	912	253,874	1,640	1,990	AF	Season End IYR	

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		,	1	1	1	1	1-	+-	+-	+-	+	-		+	-	-	 	ļ	37		E		
							Welsh Reservoir	Robinson Reservoir	0.Z. Reservoir	Noecker Reservoir	Lower G.G. Reservoir	L.E.D.E. Reservoir	Homestake Reservoir	G.G. Reservoir	Climax Moly No. 4	Chalk Mountain Res	Bolts Lake	Black Lake No. 2	Benchmark Lake		RESERVOIR NAME		
TOTALS:							Alkali Creek	Eagle River	Brush Creek	Eby Creek	Eby Creek	Gypsum Creek	Homestake Creek	Eby Creek	Eagle River	Eagle River	Cross Creek	Gore Creek	Eagle River		SOURCE	STREAM	
27,798							0	3,136	452	0	0	0	23,735	0		217		90	168	A.F	Beg. IYR	PI	
27,555					,		105	2,020	452	280	0	180	24,095	0		217	-	90	116	Z AF	Beg. Irr.	PREVIOUS IYR	
											 			-	-					7	Season	·	
19,931							0	2,020	452	0	0	. 0	15,681	0	1,280	204	74	90	130	Z AF	Вев	IYR OF	
41,482							132	3,000	452	160	0	160	35,800	0	1,280	204	74	90 -	130	Z AF	Beg.Irr.Season	IYR OF RECORD	
13,912							0	2,560	452	0	0	10	9,112	0	1,280	204	74	90	130	Z AF	End		
		<u>-</u> -L			— <u> </u>									<u> </u>	3	4	4		19		IYR		

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		Van Springs Res No 2	Van-Cleve Fisher Res	Upper Chapman Reservoir	Thomas Reservoir	Tagert Lake	Spring Park Reservoir	Ruedi Reservoir	Ralston No 1 Reservoir	McNulty Reservoir	Lake Ann Ditch Res	Jacobsen Lakes & Ponds	Ivanhoe Reservoir	Hopkins Reservoir	Himmeland Reservoir	Elk Creek Reservoir No 2	Crooked Creek Reservoir	Consolidated Ditch Res	Beaver Lake	Alicia Lake Reservoir		RESERVOIR NAME		
		Coulter Creek	Mesa Creek	Fryingpan River	Thomas Creek	Roaring Fork River	Cattle Creek	Fryingpan River	W Coulter Creek	Cattle Creek	Sopris Creek	Roaring Fork River	Fryingpan River	Landis Creek	Fryingpan River	Elk Creek	Lime Creek	W Coulter Creek	Crystal River	Lime Creek		SOURCE	STREAM	
		1 60	0	2,450	160	NIA	30	83,816	0	0	4.5	225	7	NIA	92	NIA	NIA	80	73	673	AF	Beg. IYR		
-	\dashv	· · ·	-	-	-																7	R	REV	
		102	146	2,450	160	NIA	1,412	97,262	0	0	325	225	409	NIA	92	NIA	NIA	802	73	673	AF	· .• I	PREVIOUS IYR	
			,																		7	g		
		0	0	2,450	160	30	4	84,405	0	0	20	225	0	15	92	10	40	11	73	673	AF	Beg. IYR	IYR OF	
			·													•					6.1	В	RECORD	
		0	0	2,450	160	30	252	101,270	0	0	53.1	225	0	∞ .	92	10	40	507	73	673	AF Z	Beg.Irr.Season	ORD	
		0	0	2,450	160	30	5	89,535	0	0	20	225	0	0.3	92	10	40	0	73	673	AF	End IYR		

RESERVOIR STORAGE SUMMARIES GREATER THAN 50 AF (Page 2 of 2)

AD RESERVOIR MAME STREAM PREVIOUS IVE TIR OF RECORD End IVE End. Tir OF RECORD End IVE End.		1	1	ī	1	1		1	1	1			-		 					,		
RESERVOIR NAME STREAM ST			1	1	 	+		 	+	+-	+-	- -			 				38		ទ	
SOURCE PREVIOUS IYR IYR OF RECORD	T																Lake		Warren			
PREUTOUS IYR	(Pp 1 & 2):																	Snowmass Creek	Warren Creek		STREAM	***
Beg. IYR Seg. IYR Beg. IYR Seg. IYR	89,195.5									 - - -	11 · · · · · · · · · · · · · · · · · ·						300	1,125	NIA	AF	H .	
IYR OF RECORD End Season End	105,606						,										tu '	1,1	· v	_	EVI	
IVR OF RECORD IVR Beg.Irr.Season End 2 AF Z AF 50 50 50 1,100 1,100 1,110 300 300 300 3 3 300 300 300 3 1,110 300 300 3 1,110 300 300 3 1,110 300 300 3 1,110 300 300 3 3 300 300 300 3 3 300 300	8																00	75	TA	7	7.0	
RECORD Beg.Irr.Season End	9,658		-				9							,			300	1,100	50	AF	IYR (Beg. IYF	
1.Season End 2 AF 50 Z AF 300 J ₁ 11	107,29																					ì
End AF AF AF 33 34,763.3																	300	1,100	50		U .Irr.Season	
· · · · · · · · · · · · · · · · · · ·	94,763.3			,					; .							,	300	1,100	50	AF	End	

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			-	-	+	+-	-	 	-	-	-	 	-	1	 	_			39		Ð	
													Rifle Gap Reservoir	Park Reservoir	Middle Fork Reservoir	Meadow Creek Reservoir	Harris Reservoir	Grass Valley Reservoir	City of Rifle Pond No 1		RESERVOIR NAME	
TOTALS:													Rifle Creek	Elk Creek	Parachute Creek	Elk Creek	Rifle Creek	Rifle Creek	Colorado River		SOURCE	STREAM
13,546	1	,								3			1,888	19	7,463	984	100	3,036	56	AF	Beg. IYR	9
2										-										7		PREVIOUS
27,015	,						•		\			3	12,276	176	7,463	984	200	5,860	56	AF	Irr.	OUS IYR
(1)					-															77	Season	
3,011					,								1,282	45	119	864	100	555	46	AF	Beg. IYR	IVR OF
								<u> </u>											ر	2.1		
13,624	, ,												6,629	156	119	864	200	5,600	56	AF	Beg.Irr.Season	RECORD
																				3-9	nose	
2,863													1,167	43	118	744	100	-651	40	AF	End IYR	
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																Porter Reservoir	Centenial Lake	Anderson Pond No. 1		RESERVOIR NAME	
TOTALS:											, ,					Three Mile Creek	Colorado River	Colorado River		SOURCE	STREAM
555.8										ì						5.8	238	31.2	AF Z	Beg. IYR	į.
734.8																184.8	238	312	AF	YR Beg.Irr.Sea	VIOUS IYR
																		2	72	Season	
558.7																7.7	238	313	AF	Beg. IYR	IYR O
5		-			-														6 7		FRE
556.1											, \					5.1	238	313	AF Z	. IYR Beg.Irr.Season	CORD
41.6																0	143	273	AF 23 -	End IYR	

RESERVOIR STORAGE SUMMARIES GREATER THAN 50 AF

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				Woods Reservoir	Whiteley Peak Res	Parsons Reservoir	Oaks Reservoir	North Meadow Reservoir	Milk Creek Reservoir	McMahon Reservoir No 2	McElroy Reservoir	Matheson Reservoir	Martin Reservoir	Lake Agnes	Hinman Reservoir	Binco Reservoir	Basin Reservoir	Antelope Reservoir	Albert Reservoir		RESERVOIR NAME		
TOTALS:				Muddy Creek	Muddy Creek	Muddy Creek	Muddy Creek	Muddy Creek	Middle Creek	Red Dirt Creek	Pass Creek	Troublesome Creek	Muddy Creek	Muddy Creek	Muddy Creek	Troublesome Creek	Muddy Creek	Colorado River	Albert Creek		SOURCE	STREAM	
1,853				5	350	0	15	0	25	, 440	0	50	215	400	300	50	0	0	З	AF	Beg. I		
_			-																	7	IYR	PREV	
8,323	y e			50	773	0	50	300	105	3.,490	240	1,073	215	431	611	500	08	280	125	AF	.Irr.	PREVIOUS IYR	
						:											-			7	Season		
1,118			/	15	100	0	20	0	25	440	0	0	55	400	20	5	0	35	3	AF	Beg.	IYR	
							,						-	-						7.1		0F	
7,934				40	700	65	61	185	105	3,600	240	1,073	200	430	. 611	204	50	245	125	AF	Beg.Irr.Season	RECORD	
_	· · ·						-										-			3-1	easor		
1,692				25	305	0	4	0	20	377	0	0	6	420	500	0	0	35	0	AF	n End IYR		
							2	,			_				!	<u>-</u>	l			 !			1

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	STREAM	PRE	PREVIOUS IYR	IYR OF	RECORD
WD RESERVOIR NAME	SOURCE	Beg. IYR		Beg. IYR	Beg. Irr. Season
		AF Z	AF 7	AF Z	AF %
51 Bull Run Reservoir	Williams Fork River	160	200	192	200
Cottonwood Reservoir	Gardiner Creek	10	80	30	35
East Branch Reservoir	Williams Fork River	700	1,800	2,000	1,900
F W Linke No 2 Reservoir	Ten Mile Creek	0	50	0	40
Hankinson Reservoir	Fraser River	116	116	116	86
Jack Orr Reservoir	Colorado River	20	2.0	20	20
Kings Reservoir	Buffalo Creek	731	390	256	352
Lake Granby	Colorado River	399,454	374,644	273,959	301,033
Langholen Reservoir	Battle Creek	8	50	ر ا	55
Meadow Creek Reservoir	Ranch Creek	934	5,100	127	5,098
Moore Reservoir	Williams Fork River	70	130	75	175
Musgrave Reservoir	Corral Creek	80	300	0	350
Rock Creek Reservoir	Rock Creek	140	100	0	0
Scholl Reservoir	Corral Creek	0	165	0	100
Shadow Mtn Reservoir	Colorado River	18,075	17,687	17,785	17,450
Sun Valley Reservoir	North Fork of Colo	72	72	72	72
					`
	SUBTOTALS:	420,750	400,904	294,637	326,966

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	Ī		STREAM	PR	EVI	PREVIOUS IYR		IYR OF RECORD	2	CORD	`		
	Ð	RESERVOIR NAME	SOURCE	Beg. IYR			ü	Beg. IYR		Beg.Irr.Season	non	End IYR	
				AF	24	AF	94	AF	94	AF	79	AF	_
	51	Sylvan Reservoir	Little Muddy Creek	95		1,000		5		1,000		10	- 26
.*		Ute Creek Reservoir	Williams Fork River	40		100		72		190		165	
٠.		Williams Fork Reservoir	Williams Fork River	68,573		85,029		65,712		93,854		74,960	
		Willow Creek Reservoir	Willow Creek	9,962	`	9,110		7,776		7,846		7,546	
				,									
			SUBTOTALS:	78,670		95,239		73,515		102,890		82,681	
		,					-	-					
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						<i>; ,</i>					-	,	
		,	SUBTOTALS PAGE 1:	420,750		400,904		294,637		326,766	·	305,830	
			SUBTOTALS PAGE 2:	78,670	-	95,239		73,515		102,890		82,681	
			TOTALS:	499,420	-	496,143	 	368,152	1-	429,856	-	388,511	
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											2			Rock Gap Dam	Ragland Reservoir No 2	Jones Reservoir	Christenson Reservoir		RESERVOIR NAME		
TOTALS:														Unnamed Tributary to Colorado River	Alkali Creek	Hartman Gulch	Sheephorn Creek		SOURCE	STREAM	
190.4	<u> </u>											,,,,		52	NIA	69.2	69.2	AF	Beg. IYR	7	1
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190.4														52	NIA	69.2	69.2	AF	Beg.Irr.Season	PREVIOUS IYR	
							· .	i		,								79	son		
243.2														52	722 251	69.2	0	AF	₽	IYR OF	+
219	7											/ .		35	122	62.0	0.3	7 AF 7	Beg.Irr.Season	RECORD	
178.7														15.1	122	41.6	0	Z AF	n End IYR		

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		Sterner Reservoir	Reid Reservoir No. 3	Newton Gulch Reservoir	Morris Reservoir	Mackinaw Lake Res	Luark Reservoir	Kelly Reservoir	Jones No. 2 Reservoir	Jones No. 1 Reservoir	Hidden Springs Res	Heart Lake Reservoir	Hadley Reservoir	Grimes Brooks Reservoir	Egeria Reservoir	Ed W. Harper	Cresent Lake	Clyde Reservoir	Beaver Dam Reservoir		WD RESERVOIR NAME		
		Egeria Creek	Egeria Creek	King Creek	Toponas Creek	Derby Creek	Spring Creek	Egeria Creek	Sheep Creek No. 2	Sheep Creek No. 2	Horse Creek	Deep Creek	Egeria Creek	Red Ditch Creek	Egeria Creek	Egeria Creek	Derby Creek	Egeria Creek	Sweetwater Creek		SOURCE	STREAM	
		30	93	0	0	NIA	0	43	ω	0	NIA	3,255	164	206	7	14.2	87.2	6.4	NIA	AF Z	Beg. IYR	PRE	-
		90	93	12 3	75	NIA	8	226	400	200	NIA	3,255	164.6	326	107.3	194.2	237.2	66.4	NIA	AF	• 1	PREVIOUS IYR	
		0	93	0	0	С	0	100	255	0	50	2,769	164	0	7	14.0	0	6.0	122	Z AF	Beg. IY	IYR OF	
		154	93	67	75	84	90	108	197	150	50	3,060	80	163	107	194.0	237.0	66.0	122	% AF		RECORD	
		0	93	0	0	0	0	68	96	0	50	2,621	0	103	0	112	90.0	0	122	% AF	on End IYR		

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								1								Wohler Reservoir	Toponas Rock) p 2 Res	Tonier Gulch Reservoir	Sweetwater Reservoir		RESERVOIR NAME	
(+ + + +)·	TOTALS (Pn 1 & 2):											Ę				Elk Creek	Toponas Creek	Tonier Gulch	Sweetwater Creek		STREAM SOURCE	
3 500	4.555.8															93	0	64	490	AF	PR Beg. IYR	
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,	6.382.7															93	88	64	490	AF	PREVIOUS IYR IYR Beg. Irr. Season	
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19-27	4.227															93	0	64	490	AF	IYR OF Beg. IYR	
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	5-863				22 - X							S.				60	196	20	490	AF	RECORD Beg.Irr.Season	
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0,000	3 915						,									50	0	20	490	AF	End IYR	

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RESERVOIR STORAGE SUMMARIES GREATER THAN 50 AF

Revised 4/91

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			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	Bob McKelvie 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 Reservoir		NESERVOIR NAME		1990
	SUBTOTALS:		Coon Creek	Coon Creek	Coon Creek	Leon Creek	Bull Creek	Bull Creek	Bull Creek	Bull Creek	Bull Creek	Bull Creek	Bull Creek	Plateau Creek	Big Creek	Big Creek	Big Creek	Big Creek	Big Creek	Bull Creek		SOURCE	STREAM	RESERVOIR STORAGE
	2,349		0	0	0	162	106	0	0	0	0	0 -	0	N/A	592	o o	181	1,308	0	0	Ą;	Beg. IYR	·	
	5,147		47	120	0	490	236	226	0	70	83	30	O,	N/A	1,223	105	143	1,549	746	79	Z AF	Beg.Irr.	EVIOUS IYR	SUMMARIES GREAT
																					79	Season		ER TH
	1,316		0	0	0	30	35	0	0	0	0	0	0	N/A	271	0	0	980	0	0	AF	Beg. IYR	N.	GREATER THAN 50 AF
					-			· ·	-												2		7	
	4.630		138	225	0	490	262	237	59	70	83	0	0	200	1,116	105	152	1,493	0	0	AF	Beg. Irr. Sea	ORD	(Page
ł	- ,						· ·		-					<u> </u>							7.1	Season		1 of
	1.619		0	41	0	116	0	0	0	0	45	0	0	200	532	26	0	609	0	0	AF	End IYR		£ 3)
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GREATER THAN 50 AF (Page 2 of 3)

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	Monument No. 2 Reservoir	Monument No 1 Reservoir	Mesa Creek No 4 Res	Mesa Creek No 3 Res	Mesa Creek No 1 Res	Mack Mesa Reservoir	Lost Lake Reservoir	Leon Lake Reservoir	Kirkendall Reservoir	Kendall Reservoir	Jerry Creek Res No 2	Jerry Creek Res No 1		Hawxhurst Reservoir	Dawson Reservoir	Cottonwood Lake Res No 5	Cottonwood Lake Res No 4	Cottonwood Lake Res No 2	Cottonwood Lake Res No 1		D RESERVOIR NAME	
SUBTOTALS:	Leon Creek	Leon Creek	Mesa Creek	Mesa Creek	Mesa Creek	Mack Wash	Bull Creek	Leon Creek	Leon Creek	Leon Creek	Plateau Creek	Plateau Creek	Mack Wash	Hawxhurst Creek	Big Creek	Cottonwood Creek	Cottonwood Creek	Cottonwood Creek	Cottonwood Creek		STREAM SOURCE	
11,809	0	0	0	0	0	NIA	0	665	0	0	5,668	1,037	2,080	0	220	209	260	0	1,670	AF Z	PRET Beg. IYR	
13,690	102	572	109	146	78	NIA	24_	1,477	112	84	5,705	1,197	2,080	71	220	171	285	143	1,114	AF	PREVIOUS IYR YR Beg.Irr.Season	
10,599	0	0	0	0	0	NIA	0	378	0	0	5,350	192	2,770	0	203	72	256	0	1,378	Z AF	IYR OF son Beg. IYR	
14,576	71	572	131	150	285	NIA	61	1,108	112	56	6,076	1,134	2,640	60	220	203	285	87	1,325	Z AF	RECORD Beg.Irr.Season	
12,081	0	0	0	. 36	. 15	NIA	0	398	0	0	5,963	977	3,400	0	0	144	68	0	1,080	Z AF	on End IYR	

Revised 4/91

RESERVOIR STORAGE SUMMARIES GREATER THAN 50 AF

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						Jensen Reservoir	Y T Reservoir	Vega Reservoir	Twin Basin Reservoir	T E Kitson Reservoir	Stubbs McKinney Clark R	Rapid Creek No 2 Res	Rapid Creek No 1 Res	Parker Basin Res No 3	Parker Basin Res No 2	Parker Basin Res No 1	Palisade Storage Res 2	Palisade Storage Res l	Palisade Cabin Reservoir		RESERVOIR NAME
TOTALS:		SUBTOTALS PAGE 1:	SUBTOTALS PAGE 2:	SUBTOTALS PAGE 3:		Cottonwood Creek	Grove Creek	Plateau Creek	Bull Creek	Cottonwood Creek	Spring Creek	Rapid Creek	Rapid Creek	Cottonwood Creek	Cottonwood Creek	Cottonwood Creek	Rapid Creek	Rapid Creek	r Rapid Creek		STREAM
23,521		2,349	11,809	9,363		225	0	6,619	0	132	153	800	50	0	0	244	96	87	957	AF Z	1 1-1
47,711		5,147	13,690	28,874	-	NIA	18,	26,398	30	159	230	884	50	0	60	174	96	0	775	AF 7	PREVIOUS IYR YR Beg.Irr.Season
16,106		1,316	10,599	4,191		NIA	44	2,270	0	178	0.	700	0	0	0	199	0	0	800	AF	IYR OF n Beg. IYR
37,544		4,630	14,576	18,338		NIA	. 150	15,384	24	55	70	884	500	0	51	229	0	0	991	7 AF	RECORD Beg. Irr.
16,682		1,619	•	2,982		NIA	44	1,783	13	3	0	0	150	0	4.8	99	0		842	% AF	Season End I
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Revised 4/91

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			DIVISION 5 TOTAL STORAGE	DIVISION TOTAL RESERVOIRS	DIVISION TOTAL RESERVOIRS				2		0	5	9	8	17	36		RESERVOIR NAME	
				LESS THAN 50 AF	GREATER THAN 50 AF													STREAM	
			991,603	1,224	990,379	23,521	0	4,556	190	499,420	1,853	556	13,546	89,196	27,798	329,743	AF Z	PRE Beg. IYR	
	is and the second secon		1,139,479	2,018	1,137,461	47,873	0	6,383	190	496,143	8,323	735	27,015	105,606	27,555	417,638	ĄF	PREVIOUS IYR YR Beg.lrr.Season	
			832,440	1,276	831,164	16,106	0	4, 227	243	368,152	1,118	559	3,011	89,658	19,931	328, 159	Z AF	IYR OF Beg. IYR	
			1,039,881	2,092	1.037.789	37.544	0	5, 863	219	429,856	7,934	556	13,624	107,293	41,482	393,418	% AF	F RECORD Beg.Irr.Season	
-			854.388	1,144	853.244	16.682	0	3, 915	179	388,511	1,692	416	2,863	94,763	13,912	330,311	% AF	on End IYR	

RESERVOIR	
STORAGE	
SUMMARIES	
LESS THAN 50	
50	
AF	

1990

-	 	 	-	 		<u> </u>	72	70	53	52	51	50	45	39	38	37	36	ī	ਝ
					DIVISION TOTAL RESERVOIRS														D RESERVOIR NAME
					LESS THAN 50 AF		t												STREAM SOURCE
					1.224	-	68	0	223	109	59	98	78	27	356	89	116	AF 7	PREVIOUS Beg. IYR Beg.
٤.				7,010	2.018		128	0	337	219	324	224	104	32	383	89	178	AF	Beg.Irr.Season
				1,201	1 276		79	0	194	109	117	98	54	70	337	104	114	% AF	IYR OF Beg. IYR
				2,092	2 002		246	0	343	164	354	208	93	72	323	104	. 185	AF	Beg. Irr. Season
				1,144			52	0	163	124	103	64	67	50	310	102	109	7 AF	son End IYR

WATER
DIVERSION
SUMMARIES
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DISTRIC

1990

		TOI	 					1 ,									4 4	
		TOTALS:	. '.		<u> </u> 	72	70	53	52	51	50	45	39	38	37	36	3	
		4685				429	131	545	194	474	224	(437)	(469)	1,185	(297)	(300)	WA	TOT
		372				71	51	6	. б	18	7	138	20	29	18	9	NWA	TOTAL DITCHES
		3860				447	164	(175)	(91)	497	104	(360)	(302)	(882)	(463)	(375)	UU	1 1
,		2947				552	49	(64)	(64)	317	16	(71)	(150)	(964)	(419)	(281)	U NR	REPORTING
		35,202				8,056	790	1,423	518	7,395	1,242	2,734	991	6,734	3,742	1,577	DITCH VISITATIONS	ESTIMATED
		5,249,360				1,841,237	12,664	865,003	23,112	777,879	95,258	100,673	177,509	531,164	142,778	682,083	-AF-	TOTAL
		482,079				32,751	0	2,665	93	233,181	7,631	155	12,029	30,708	21,394	141,472	TO STORAGE -AF-	TOTAL
		1,934,435				862,252	11,989	103,203	22,166	169,505	87,310	87,035	126,390	300,407	83,341	80,837	DIVERSIONS -AF-	
		321,015		-		123,960	5,509	30,810	8,031	28,118	19,956	19,058	21,085	35,434	16,262	12,792	ACRES IRRIGATED	IRRIGATION
		6.01			,	6.96	2.18	3,35	6.1	6.03	4.38	4.6	5.7	8.48	6.8	6.4	AVERAGE AT PER ACRE	

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WATER DIVERSION SUMMARIES BY DISTRICT (Continued)

	· ·	 					;			·				
			72	70	53	5 2	51	50	45	39	ა 8	3 7	36	WD
			1,132	0	0	0	292,980	0	0	0	96,280	29,861	69,090	TRANS- MOUNTAIN OUTFLOW AF
			1,418	0	0	345	9,221	0	0	1,240	538	0	0	TRANS- BASIN OUTFLOW AF
			2,448	602	170	124	4,456	191	11,856	334	4,136	0	6	STOCK
			20,612	46	3,798	0	2,199	0	1,205	2,393	8,450	6,438	5,735	MUNICIPAL AF
	-		91	17	332	204	244	20	201	2,469	1,233	180	54	DOMESTIC AF
			909,234	10	751,416	4	45,478	0	121	1,213	73,187	0.3	371,311	INDUSTRIAL
			0	0	7	61	0	0	0	0	6,791	0	0	RECREATIONAL AF
			9,956	0	1,051	0	1,180	16)	31,259	6,992	0	ω	FISHERY
			39	0	1,231	—	56	0	0	4	173	265	669	(includes snowmaking) COMMERCIAL
			1,304	0	1,130	114	19,379	90	99	178	2,269	1,299	12,906	EVAPORATION AF
				1,132 1,418 2,448 20,612 91 909,234 0 9,956 39 1,	0 0 602 46 17 10 0 0 0 0 1 1,132 1,418 2,448 20,612 91 909,234 0 9,956 39 1,	0 0 170 3,798 332 751,416 7 1,051 1,231 1, 0 0 602 46 17 10 0 0 0 0 1,132 1,418 2,448 20,612 91 909,234 0 9,956 39 1,	0 345 124 0 204 4 61 0 1 0 0 170 3,798 332 751,416 7 1,051 1,231 1, 0 0 602 46 17 10 0 0 0 0 0 1,132 1,418 2,448 20,612 91 909,234 0 9,956 39 1, 1,132 1,418 2,448 20,612 91 909,234 0 9,956 39 1,	292,980 9,221 4,456 2,199 244 45,478 0 1,180 56 19, 0 345 124 0 204 4 61 0 1 1 0 0 170 3,798 332 751,416 7 1,051 1,231 1, 0 0 602 46 17 10 0 0 0 0 1,132 1,418 2,448 20,612 91 909,234 0 9,956 39 1, 1,1051 1,231 1, 1, 1,051 1,231 1,	0 0 191 0 20 0 0 16 0 292,980 9,221 4,456 2,199 244 45,478 0 1,180 56 19,3 0 345 124 0 204 4 61 0 1 1 0 0 170 3,798 332 751,416 7 1,051 1,231 1,1 0 0 602 46 17 10 0 0 0 0 1,132 1,418 2,448 20,612 91 909,234 0 9,956 39 1,3	0 0 11,856 1,205 201 121 0 1 0 1 0 1 0 0 1 0 0 0 0 0 0 0	0 1,240 334 2,393 2,469 1,213 0 51,259 4 1 0 0 11,856 1,205 201 121 0 1 0 1 0 0 191 0 20 0 0 16 0 1 292,980 9,221 4,456 2,199 244 45,478 0 1,180 56 19,3 0 345 124 0 204 4 61 0 1 1 1 0 345 124 0 204 4 61 0 1 1 1 0 0 170 3,798 332 751,416 7 1,051 1,231 1,1 1,132 1,418 2,448 20,612 91 909,234 0 9,956 39 1,3	96,280 538 4,136 8.450 1,233 73,187 6,791 6,992 173 2,2 0 1,240 334 2,393 2,469 1,213 0 31,259 4 1 0 0 1,240 334 2,393 2,469 1,213 0 31,259 4 1 0 0 11,856 1,205 201 121 0 1 0 0 1 0 0 191 0 20 0 0 1 0 16 0 1 292,980 9,221 4,456 2,199 244 45,478 0 1,180 56 19,3 0 345 124 0 204 4 61 0 1 180 1 1 0 0 0 602 46 17 10 0 0 0 0 0 0 1 1,132 1,418 2,448 20,612 91 909,234 0 9,956 39 1,3	29,861 0 0 6,438 180 0.3 0 0 265 1,29 96,280 538 4,136 8,450 1,233 73,187 6,791 6,992 173 2,26 0 1,240 334 2,393 2,469 1,213 0 31,259 4 17 0 0 11,856 1,205 201 121 0 1 0 1 0 0 191 0 20 0 0 16 0 9 292,980 9,221 4,456 2,199 244 45,478 0 1,180 56 19,37 0 345 124 0 204 4 61 0 1 11 0 37 170 3,798 332 751,416 7 1,051 1,231 1,13 1,132 1,418 2,448 20,612 91 909,234 0 9,956 39 1,30	69,090 0 6 5,735 54 371,311 0 3 669 12,90 29,861 0 0 6,438 180 0.3 0 0 265 1,29 96,280 538 4,136 8,450 1,233 73,187 6,791 6,992 173 2,26 0 1,240 334 2,393 2,469 1,213 0 1,259 4 17 0 0 11,856 1,205 201 121 0 1,259 4 17 292,980 9,221 4,456 2,199 244 45,478 0 1,180 56 19,37 0 345 124 0 204 45,478 0 1,180 56 19,37 0 0 170 3,798 332 751,416 7 1,051 1,231 1,131 0 0 0 0 0 0 0 0 0

D. WATER COURT ACTIVITIES Calendar Year 1990 (1/1/90 thru 12/31/90)

Number of Water Rights Applications = 90CW001 thru 90CW350 324 = Division 5 26 = Division 6, District 43

Number of Water Court Applications by District:

District 36 = 12	District 45 =	27	District 53 = 8	
District $37 = 22$	District 50 =	0	District $70 = 2$	
District $38 = 126$	District 51 =	63	District 72 = 46	
District $39 = 20$	District 52 =	7		

Number of Structures in Applications by Water District (excluding aug/exchange/change cases):

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District 36 = 97 District 45 = 42 District 53 = 14 District 37 = 61 District 50 = 0 District 70 = 2 District 38 = 163 District 51 = 59 District 72 = 54 District 39 = 27 District 52 = 8 TOTALS = 526
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Number of Cases Decreed = 277

Number of Cases Decreed Abandoned for Lack of Diligence = 16

Number of Cases Denied =

Number of Cases Dismissed = 5

Number of Cases Withdrawn = 6

E. OFFICE ADMINISTRATION Calendar Year 1990 (1/1/90 thru 12/31/90)

Orders For Installation and/or Repair of Headgates By District:

District 36	, =	0	District	45	==	8	District 53	=	0	
District 37	=	0	District	50	=	0	District 70	=	0	
District 38	} · =	15	District	51	=	4	District 72	=	10	
District 39) =	18	District	52	= '	0	ΤΟΤΔΤ.·			

NAME	POSITION	MILEAGE
OFFICE STAFF:		
Bell, Orlyn J.		2,306 P
	Asst Division Engineer	565 P
	Sr Water Resource Engineer	998 P
Schieldt, Wayne I.	Sr Water Resource Engineer (Hydro)	0 P
Blair, John G.	Sr Water Resource Engineer (Dam Safety)	0 P
Hitchcock, Nancy C.	Sr Secretary	0 P

E. OFFICE ADMINISTRATION (continued): Calendar Year 1990 (1/1/90-12/31/90)

FULL-TIME EMPLOYEES IN THE FIELD:

NAME	POSITION	DISTRICT	MILEAGE
Hummer, Scott	Wtr Comm B	36 Effective 9/1/90	4,652 P
Wells, L. Wayne	Sr Wtr Comm	36/37	6,177 P
Cerise, Alvin L.	Wtr Comm C	38/39/45	12,729 P
	Wtr Comm C	45	8,463 P
- · · · · · · · · · · · · · · · · · · ·	Wtr Comm C	50	
Klocker, Marcus A.		72	12,044 P
in the second se	TIII WEL COMM	12	337 P
PERMANENT PART-TIME	EMPLOYEES IN THE	FIELD:	
Whitehead, Dwight	Wtr Comm B	38/Wells	144 5
Bergquist, Joe	Wtr Comm B	38	144 P
Lemon, James	Wtr Comm B	39	10,628 P
Nelson, Glen	Wtr Comm B	45	4,717 P
Daxton, James	Wtr Comm B	51	850 P
McEwen, Bill	Wtr Comm B		10,035 P
Anderson, George	Wtr Comm B	52/53	6,450 P
Hummer, Scott	Wtr Comm A	70	6,965 P
		72 Till 9/90	7,620 P
	Wtr Comm A	72	6,325 P
Cox, Tom Hittle, Ray	Wtr Comm B	72	4,250 P
	Wtr Comm B	72 Retired 10/90	. 2,838 P
Wilson, Marshall	Wtr Comm A	72 Terminated 5/90	298 P
Law, Russell	Wtr Comm A	72 Temporary 7/90-10/90	3,791 P
	TOTAL PERSONAL M	ILES DRIVEN:	113,182 P
STATE VEHICLES ASSI	GNED TO DIVISION	5:	MILEAGE
13-0382 Principal	Driver: Wayne Scl	nieldt	11 200 0
•	Driver: Marc Klos	bar	11,300 S
	Driver: Dwight WI		11,044 \$
•	Driver: John Blan	r Dam Coform	7,984 S
	oriver. Some blan	ir, Dam Sarety	6,012_S
	TOTAL STATE VEHIC	CLE MILES DRIVEN:	36,340 S
FLEET MANAGEMENT LEA	ASE VEHICLES ASSIG	GNED TO DIVISION 5:	
01-8416 Principal	Drivers: Wayne We	ells, Bill McEwen	9,413 L
(Replacen	ment for Vehicle	13-0354 retired 9/89)	
	Driver: Orlyn Bel		11,042 L
(Replacen	ment for Vehicle (01-7006 retired 5/15/90)	
01-7006 Principal	Driver: Orlyn Bel		6,098_L
	TOTAL LEASE VEHIC	LE MILES DRIVEN:	26,553 L

F. COLORADO RIVER CALLS FOR 1990

DATE OF CALL	CALLING STRUCTURE	AMOUNT OF	CALL	ADMIN NUMBER
12/31/89	Shoshone Power Plant Call Still ON	158.0	cfs	33023.28989
12/31/89	en e	1250.0	cfs	20427.18999
4/23/90	Shoshone Power Plant Call for 1250	cfs OFF		
4/30/90	Shoshone Power Plant	158.0	cfs	33023.28989
5/01/90	Shoshone Power Plant	1250.0	cfs	20427.18999
5/09/90	Shoshone Power Plant Call			
	for 158.0 cfs and 1250.0 cfs OFF	7		`
5/16/90	Windy Gap Project	300.0	cfs	43621.42906
6/30/90	Windy Gap Project Call OFF			• •
7/27/90	Shoshone Power Plant	158.0	cfs	33023.28989
7/30/90	Grand Valley Canal	119.47	cfs	30895.23491
8/09/90	Grand Valley Project	730.0	cfs	22729.21241
9/22/90	Shoshone Power Plant	1250.0	cfs	20427.18999
10/09/90	Grand Valley Project Call for 730.0	cfs OFF		•
10/22/90	Grand Valley Canal Call for 119.47			
12/31/90	Shoshone Power Plant Call for 1250.	0 cfs Still	ON	·

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				<u> </u>	ļ				<u> </u>				ļ						36		ਝ		T
												Shane Reservoir	Sawmill Reservoir	Jones Reservoir	Griggs Reservoir No 3	Griggs Reservoir No 2	Griggs Reservoir	Dillon Reservoir	Bumgarner Reservoir		RESERVOIR NAME		
TOTALS:												Shane Gulch	Carter Creek	Sawmill Creek	Beaver Creek	Beaver Creek	Beaver Creek	Salt Lick Creek	Beaver Creek		SOURCE	STREAM	
85									in vital			0	0	0	0	0	41	44	0	AF	Beg. IYR	ro	
																				89	×	REV	
155												0	0	14	34	0	41	44	22	AF %	• [1989 PREVIOUS IYR	
113.5												ω	17	0.5	0	8	4.1	44	0	AF 7	Вев	1990 IYR OF RECORD	
185												ω	17	15	35	&	41	44	22	AF	Beg.Irr.Season	RECORD	
109						\$ -	\(\frac{1}{2}\)	2			· .	2.5	17	0.5	0	8	37	44	0	% AF	on End IYR		

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-		-	-	-	-	 	-	-	 	 			_				37		ਬ		7
			¥							Tract E Reservoir	Schmidt Gypsum Rch Dam	Nottingham Reservoir	Lake Creek Meadows	June Creek	Black Lake	15th Hole Reservoir	4th Hole Reservoir		RESERVOIR NAME		
TOTALS:										Eagle River	Eagle River	Nottingham Creek	Lake Creek	June Creek	Gore Creek	Eagle River	Eagle River	U	SOURCE	STREAM	
0												0	NIA	NIA				AF	Beg. IYR	İ	1
										 ļ								7	R	1 REV	
0												0	NIA	NIA	NIA			AF	•	1989 PREVIOUS IYR	
																		79	ison		
104.5		-								0.6	4	0	7	38	44.4	9.2	1.3	AF	Beg. IYR	1990 IYR OF RECORD	T
104.5										0.6	4	0	7	38	44.4	9.2	1.3	% AF	Beg.Irr.Season	RECORD	
										 		-						%	on n		
102.5										0.6	4	0	7	36	44.4	9.2	1.3	AF	End IYR		

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		 	5															39	,,,,,	ទ]
					Coulter Reservoir	Sample Reservoir No 2	Sample Reservoir No 1	Raymond Pond	Lisa Pond	Emmer Reservoir	Cozza Reservoir	Clough Stock Water Res	Cherry Creek Pond No 5	Cherry Creek Pond No 4	Cherry Creek Pond No 3	Cherry Creek Pond No 2	Cherry Creek Pond No 1	Brungs Pond		RESERVOIR NAME		
TOTALS:					East Rifle Creek	East Elk Creek	East Elk Creek	West Rifle Creek	Colorado River	Rifle Creek	Cozza Gulch	Colorado River	West Elk Creek	East Elk Creek		SOURCE	STREAM					
38.9					2	_U	2	ω	&	7.9	0	 →	F-3	L	ı	H	Н	ъ	AF Z	Beg. IYR	1 PRE	
43.9					2	5	2	ω	8	7.9	5	ļ	F	⊢ -3	H	1	ŀ··	Сī	7 AF 7		1989 PREVIOUS IYR	
69.8		2			45	2	1.8	ω	L	2	5	0	-		I	· 5	1	U	AF Z	Beg. I	1990 IYR O F R	
72.3					45	2	1.8	ω		3.5	5	H	1	-			1	5.	AF %	Beg.Irr.Season	1990 OF RECORD	
49.8					30	2	1.8	ω	H	2	0	0	1	H	H	H	L	5	AF	End IYR		

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																45		Ð		19
							Weller Lake	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	Miklish Reservoir	KLC Reservoir No. 1	Jonathan Gant Res	Island Ranch Lake No 3	Island Ranch Lake No 2	Island Ranch Lake No l	Frei Reservoir	Conger Reservoir		RESERVOIR NAME		1990
TOTALS:							Colorado River		South Canon Creek	Alkali Creek	West Mamm Creek	Colorado River	Colorado River	Colorado River	Divide Creek	Cottonwood Creek		SOURCE	STREAM	RESERVOIR STORAGE
75.2							6		2.5	2.4	0	16	18	3.7	26.6	0	AF	Beg. IYR	म्	KAGE SURRIAKLES
100.5							6		2.5	2.4	12.2	20	24	5	26.6	1.8	% AF %		1989 PREVIOUS IYR	WHEN COUNTY
54.4							6		1.5	2.4	0	16	18	3.7	6.8	0	AF %	Beg. IYR	1990 IYR OF R	JO AF
93.1							6		1.5	2.4	10.4	20	24	U.	22	1.8	AF %	Beg.Irr.Season	RECORD	
67.3							4.8		1.5	1.3	0	16	18	3.7	22	0	AF	End IYR		

· ·			 	· ·	+ 3 - 4					<u> </u>							4, 1			
								\ .	21.			L				50		Ð		
					Wheatley Divr Pond No 1	Slide Reservoir	Saraceno Reservoir	Paul Pool	Lewis Reservoir	Heini-Kramer Reservoir	Heini Reservoir	Hartman Res No 2	Davidson Reservoir	Confluence Reservoir	Colburn Reservoir No 2	Colburn Reservoir		RESERVOIR NAME		1990
TOTALS:					Lawrence Creek	Troublesome Creek	Pass Creek	Muddy Creek	Pinto Creek	Pinto Creek	Pinto Creek	Star Gulch	Muddy Creek	Antelope Creek	Muddy Creek	Muddy Creek		SOURCE	STREAM	
98					ω	4	6	0.7	0	0	45	30.	0.5	7	.5	1.0	AF %	Beg. IYR	1989 PREVIOUS	
224					3 .5	12	11	0.7	35	19	47	48	2	7	23	16	AF %		1989 IOUS IYR	
98					ω	4	10	0.7	0	0	45	35	0.5	0	0	0	AF %	Beg. IYR	1990 IYR OF RI	
208					J. 5	12	11	0.7	40	0	45	48	2	7	23	16	AF %	Beg.Irr.Season)0 RECORD	
64					2	3.5	10	0.7	0	0	0	43	1.5	ω	0	0	AF	End IYR		

(Page 1 of 2)

	1990	VESEVACTY STO	OKAGE SUMMAKIES	LES LESS IHAN	OU AF	(Page 1 of 2)	
			1989		1990	1990	
	WD RESERVOIR NAME	SOURCE	Beg. IYR	Beg. Irr. Season	Beg. IYR	Beg.Irr.Season	End IYR
			AF 7	AF %	AF %	AF %	AF
	51 Cole Reservoir	Battle Creek	0	30	0	33	0
+ 1	Dale Reservoir	Battle Creek	4	25	2	30	4
	Doe Creek Reservoir	Doe Creek	0	4	0	0	0
	Eby Reservoir	Reeder Creek	NIA	NIA	1	1.5	H.
	F W Linke No 3 Reservoir	Ten Mile Creek	0	20	0	26	6
	F W Linke Reservoir	Ten Mile Creek	0	35	0	0	0
	Greenwood Reservoir	Williams Fork River	NIA	NIA	8	Φ	8
	Gregerson Reservoir	Copper Creek (Kinney	8	38	ယ္သ	34	30
	Hockett Reservoir	Eby Creek	NIA	NIA	∞	12	9.5
	Huntington Reservoir	Sheriff Creek	0	15	0	40	0
	Lewis Pond Impoundment	Williams Fork River	ω	ω	ω	2.7	2.5
	Linke Reservoir	Ten Mile Creek	0	20	0	30	5
	Little HO Reservoir	Walden Hollow	20	34	20	35	0
	Marte-Linke Reservoir	Nine Mile Creek	20	36	18	37.5	8
	McCandliss Reservoir	Skylark Creek	0	24	0	23	0
	Pickering Reservoir	Fraser River	20	20	20	20	20
•	Robinson Swan Pond No 1	Williams Fork River	⊢ i	ω	1	1	0.5
	Robinson Swan Pond No 3	Williams Fork River	1	ω	2	2.5	2
	Robinson Swan Pond No 4	Williams Fork River	2	2.5	2	2.5	2
		TOTALS	79	312.5	118	342.7	98.5
`			,				

<u>''</u>	1	1	1	1	1		1	1	1	 1	1	· · · · · · · · · · · · · · · · · · ·	 -	70		E		<u>.</u>
														0 Trough Springs Res		WD RESERVOIR NAME		1990
TOTALS:														Dry Fork		SOURCE	CTRTAM	1
0			-											0	AF 7	Beg. IYR	PREV	
0														0	AF %	Beg. Irr. Season	1989 PREVIOUS IYR	
0	1													D	AF 7	Beg. IYR	1990 IYR OF REC	
0			X											 Ö.	AF %	eg.Irr.Season	1990 R OF RECORD	
0						. 4					1			o	AF	막		

		1														eranî V
													72		£	
						Beaver Lake Reservoir	Palisade Storage No 3	Michaelson No 1 Res	Macs Reservoir	Gardnier Reservoir	Fred DeCamp Reservoir	Currier Reservoir No. 2	Carpenter Reservoir		RESERVOIR NAME	
TOTALS						Big Creek	Rapid Creek	Big Creek	Brush Creek	Colorado River	Cottonwood Creek	Buzzard Creek	Leon Creek		SOURCE	STRAM
68						NIA	0	0	0	30	38	0	0	AF Z	Beg. IYR	PRFI
128						NIA	0	0.	25	30	ယ &	20	15	AF %		1989 PREVIOUS IYR
50						0	0	0	0	30	20	0	0	AF %		1990 IYR OF H
242						28	25	35	25	30	38	40	21	AF %	Beg.Irr.Season	1990 OF RECORD
48						0	8.0	0	0	30	10	0	0	AF	End IYR	





DIVISION OF WATER RESOURCES

WATER DIVISION V
ORLYN J. BELL
DIVISION ENGINEER
P.O. BOX 396
1429 GRAND AVENUE
GLENWOOD SPRINGS, COLORADO 81602
945-5665

January 3, 1991

MEMORANDUM

TO:

Division 5 Office

FROM:

Orlyn J. Bell OS

RE:

Staff Meeting - Today - 3:00 p.m.

Items To Be Discussed:

- 1. 1990 Annual Report Overview
 - a. What was accomplished
 - b. What was not accomplished
- 2. Personal and/or Division Goals for 1991
 - a:
 - **b**.
 - Ç.
 - d.
- 3. Major Items of Importance and Unique Situations Encountered During the 1990 Irrigation Year
- 4. Concerns About Next Year
- 5. Improvements Accomplished and Improvements Needed

Please have your information ready for collection and discussion at the meeting.

OJB/nch

INFORMAL MEMORANDUM

TO:

Orlyn J. Bell

FROM:

Robert C. Klenda, Water Commissioner, District 45

RE:

1/3/91 Staff Meeting Agenda Response Comments

1. 1990 Annual Report - Overview

A. What Was Accomplished

- 1. Received the training I was hoping for (Bill Hill CMC)
- 2. Received the monthly ditch sheets in time to distribute them to my deputy commissioners before irrigating season began.
- 3. Cerise and I were able to keypunch our diversion records on a timely basis. Reviewed print-outs and made corrections in September and October.
- 4. Printed 1989 Infrequent data and Annual Report by stream number.
 - a. Enabled each commissioner to update data as per 1990 status.
 - b. Was able to provide each commissioner with maps of area worked and tabulation.
 - c. Each commissioner reviewed the 1989 comments and acres, revising the data as per 1990.

5.	Resu	lts	1989	1990	
	а.	Summary Pages	43	43	
	b.	Diversion Daily Pages	359	481	
V	c.	Infrequent Pages	31	34	
2, 124	d.	Reservoir Summary	1	1	
	e.	Reservoir Pages	5	10	
•			439	569	
	f.	1989 NUC=F (No information	available)		34
		11 11 11 11 11 11 11 11 11 11 11 11 11	11	(BLM)	30
<u>.</u>	g.	1990 NUC=F (No information Moved the BLM Springs to a		• • • •	12

- h. Set of records, although not perfect, I am proud of their accuracy and completeness.
- 6. Studied the water rights and actual diversion locations of many structures in the Rulison area.
- Developed a basic knowledge of how to administer the Diversions-on-Wheels.
- 8. Met all the basic needs within the constraints of our budget.
- 9. Wayne Schieldt bound the Tabulation in plastic rings (using bookbinding equipment) for commissioners a tremendous help.

B. What Was Not Accomplished

- I completed signing my diversion records on 1/2/91 instead of 11/22/90 as I had hoped. (I did spend considerably less hours on them than in previous years so I accomplished many things during that time that I didn't in previous years.)
- 2. I wanted to develop a special sheet for the Diversion-on-Wheels people to use.
- 3. Although I have field inspected the structures put up for abandonment, I still need to write the reports.
- 2. Personal and/or Division Goals for 1991

Handle diversion records as in 1990 except:

- A. By 4/1/91 compile a list of shortcomings in the 1990 procedures and how they can be corrected.
- B. Look into the possibility of setting up a computer program for the monthly well record developed from cards send into the office by water users.
- C. Develop a daily diversion sheet to be provided to the Diversions-on-Wheels water users.
- D. Do a complete update on my Structure Information record.
- E. Work on my field inspections early in the month instead of leaving them until the end of the month.
- F. Become proficient in DBASE IV and DOS -- take a course at CMC if possible.
- G. Become current with tabulation cards.
- 3. Major Items of Importance and Unique Situations Encountered During the 1990 Irrigation Year

Cache Creek Administration:

- A. The sensitivity of relieving a native of the area and fellow water commissioner.
- B. Camp Bird water users that still don't want to accept the Supreme Court decision of the 1930's.
- C. Canary Bird Ditch and large springs that have been used for a hundred years but are not decreed.
- D. "Diversions-on-Wheels" the volume, impact, recordkeeping, critical administrative decisions in allowing a source and diversion location.
- E. 75 people in attendance at a BLM hearing concerning a water user building a ditch across a short span of BLM land.
- F. Filing for water rights on a stream and a chain reaction of filings on the same stream.

- 4. Concerns About Next Year
- A. Hiring freeze promotions transfers
- B. Mileage
- C. Time to research data for possible court cases
- D. Utilization of man-hours for maximum results
- 5. Improvements Accomplished and Improvements Needed
- A. Improvements Accomplished
 - 1. Computer and printer capability and speed.
 - 2. Timely budgeting and review of Division's funds.
- B. Improvements Needed
 - 1. Monthly diversions sheets that we work with in the field. We need two sheets of Acres Irrigated: one, the total amount under the ditch; another listing those irrigated in the current year.
 - 2. Need more man-months.
 - 3. Need more funding for travel a higher rate per mile and total mileage allocation.
 - 4. Need the commissioners in the field to be updated to keep pace with the Division office. Need hand-held computers for the Commissioners to be able to keypunch their data on the spot instead of writing it in a book as was done 50 years ago and is still done today.

RCK/nch



DIVISION OF WATER RESOURCES

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December 18, 1990

MEMORANDUM

TO:

Alan Pearson

FROM:

Orlyn Bell, Division Engineer, Division 5

John Blair, Dam Safety Engineer, Division 5

RE:

Proposed Dam Safety Goals for 1991

MISSION

Public Safety: We seek to prevent both loss of life and property damage from the failure of dams.

OBJECTIVES

- 1. Uphold the State statutes in regard to dam construction and safety by adherence to policies of the State Engineer.
- Provide the public the best possible service by being responsive to the dam owners' particular problems and to the safety of the general public.

GOALS (Some are not just Division 5 goals)

- Generate and maintain complete and reliable Dam Roster.
- 2. Timely review the design of new dams.
- Timely review the plans for repairs, alterations, and modifications of existing structures.
- 4. Monitor construction as necessary.
- 5. Provide training in dam safety as necessary.
- 6. Encourage team building.
- 7. Promote Division Engineer/Dam Safety Engineer liaison and support.

Alan Pearson Proposed Dam Safety Goals for 1991 Page 2

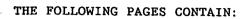
GOALS (continued)

- 8. Evaluate work procedures and paperwork in order to maximize efficiency.
- 9. Establish priorities for implementation of regulations for dam safety.

WORK ITEMS FOR 1991

- Continue to assist dam owners to repair and maintain their dams by performing necessary follow-up and construction inspections, design review of repairs planned, and consultation for minor repair, monitoring, and maintenance items. Pursue getting restricted dams repaired and off the restriction list.
- 2. Routine inspections of all non federal Class 1 dams annually, Class 2 dams every other year, Class 3 dams once every five years. Also, accompany the Bureau of Reclamation on their routine inspections of the Collbran Project dams, if time permits.
- 3. Continue to update hazard ratings of dams when land use and development changes have occurred downstream of these dams, as time permits; also where errors or deficiencies are discovered in past hazard evaluations. At least 7 are already planned for this year.
- 4. Continue to pursue the internal inspections of outlet pipes for Class 1 and Class 2 to get these inspections on a 10-year cycle.
- 5. Continue to pursue and assist having the dam owners of all Class 1 and Class 2 dams submit an updated Emergency Preparedness Plan (EPP) as necessary.
- 6. Check the adequacy of spillways for Class 2 and Class 3 dams, as time permits; at least 9 are planned for this year.
- 7. Continue to develop capacity tables and assist the dam owners in installing staff gages where necessary, with the goal of 10 staff gages and matching capacity tables.
- 8. Update the Division 5's Dam Database from the 1990 inspections.
- 9. Review Livestock Water Tank, Erosion Control Dam, and Nonjurisdictional Dam applications where necessary.
- 10. Assist the Division 5 office in other dam safety/water administration issues where necessary.

OJB/JGB/nch



ANNUAL WATER DIVERSION STATISTICAL SUMMARY REPORTS