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WATER RESOURCES

ANGE - ENGINEER

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ANNUAL REPORT

1984 - Water Year

Irrigation Division No. 4



DIVISION OF WATER RESOURCES

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January 14, 1985

Mr. Jeris A. Danielson, P.E. State Engineer Division of Water Resources 1313 Sherman Street, Room 818 Denver, Colorado 80203

Dear Mr. Danielson:

On behalf of the office and field personnel of Irrigation Division Four, I submit herewith the Annual Report for 1984.

Special attention is directed to the Division Four staff who have attended to the various responsibilities of water administration with a high degree of professionalism.

Division Four is pleased to submit this year's Annual Report by using the new Wang PC word processor and the multiplan system for the statistical part of our Annual Report. This is our first attempt at utilizing this equipment for this type of report, and it is anticipated that this will be a significant tool as far as future communications from the division office. Also, it is important to commend Jean Kurtz and Chuck David in their efforts to use this equipment with such short acquaintance to this computer.

Respectfully submitted,

Ralph V. Kelling

Division Engineer

RVK: jk Enc.

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ANNUAL WATER DIVISION ENGINEER'S REPORT

Irrigation Division Four

I. WATER ADMINISTRATION

A. Water Year 1984

1. Accomplishments for the Year: Division Four would like to outline many activities which are considered accomplishments for the water year 1984. Some of the following activities have taken place throughout the division and are considered significant at the specific location concerned.

The Division Four staff played a major role in cooperating with all concerned during the spring runoff. Because of heavy snow accumulations throughout the division drainages, all of the rivers and streams were approaching, or above flood stage at some time during the runoff season. The Gunnison River in the Gunnison area was in flood stage for approximately a month and during this time the field water officials kept the local citizens, government, and water users advised of river stages, changes and trends in flow. This was considered an important part of overall community attention to these conditions. State Water Commissioners were not only active in the Gunnison area, but along the Uncompander River from Ouray to Delta, the main stem of the Gunnison River through the Delta area and many tributaries to the Gunnison and the North Fork of the Gunnison River.

Division Four considers the association with the division Water Court as continually improving. It is felt that the division staff is inspecting and commenting to the water right applications at a higher level of detail. And the Water Court is able to improve the quality of the new decrees. The activities of the entire division staff as it relates to water right applications has improved their overall knowledge of each individual water district. This is considered an improvement in the total accomplishments for all members of the division staff.

Division Four continues to better utilize the personnel of the division. This is accomplished through several methods. One is slowly acquainting each commissioner with some of the adjacent areas of responsibility in order that they can function as back-up during times of emergency. This also has been implemented by the consolidation of two positions existing on Surface Creek drainage into one position. And also the replacement of retired and transferred personnel with local, well qualified recruits. It is extremely difficult to find good part-time employees throughout the division, and it is felt that one of the significant accomplishments of 1984 and years past has been the ability to recruit and retain well qualified part-time employees.

Division Four field personnel continue to develop communications with reservoir owners and water users, and it is felt that the lack of serious dam failures and water management problems is directly related to this communication between the field personnel, the division office and the water using public.

This division was able to meet all of the deadlines set forth for the 1984 publication of the Water Rights Tabulation and the 1984 abandonment tabulation. The division was able to notice more than 97 per cent of all the proposed abandonment water rights owners/agents.

2. Community Water Users Involvement: Division Four is the major source of diversion data and water decree information. Water users groups, conservancy districts, large canal companies, state and federal governments, land developers, attorneys, and consulting engineers are regular visitors to the field commissioners' homes, and the Division Four offices. Their requests concern all aspects of water administration and water use throughout the division. Division Four staff members are involved in "water meetings" with various entities concerning administration, dam safety, water diversion control structures and other miscellaneous activities.

During 1984 many of the division staff were an integral part of the "flood watch" and information services on the majority of the major tributaries throughout the division. Reports were furnished to the various County Commissioners, United States Weather Service, city and county law enforcement departments, and many interested individual citizens.

3. Impact from Policies, Statutes and Administrative Practices:
During early 1984 Division Four was continuously involved in the
generation of 1984 Water Rights Tabulation and the 1984 propsed Water
Rights Abandonment List. This was directed by statute and has had far
reaching consequences on the personnel and fiscal resources of the
division. Most of the full and part-time winter employees were involved
in the development of these tabulations and all of the various deadlines
were met as they were requested. Minimum inquiry has been made concerning the Water Rights Tabulation and what was considered minimal interest
in the abandonment tabulation was experienced until late November and
into the month of December, 1984. At this particular time, the public
became very active in their concerns with the abandonment list and
nearly one hundred fifty protests to Division Four abandonment list have
been filed before the January 1,1985 deadline.

The abandonment list has required significant time from all the field personnel in public contact, explanation, and directing water users to the Division Water Court and Division Engineer's office. Inquiry and protests have been made from all segments of the division water users (individual farmers and ranchers, various commercial corporations, nearly all the municipalities throughout the division, and state and federal governments.) One significant result coming from these activities is the emphasizing of the need for accurate, consistent, and timely diversion records of water rights throughout the division.

The association with the Division Water Court continues to require considerable time, mileage, and effort on the part of the division staff in order to evaluate and make recommendations through the consultation process. This additional workload was somewhat lighter than 1983 due to a smaller number of water right filings. However, in several instances, the importance of good solid diversion records were emphasized by the need to verify diversion and acreage relative to change of water rights and plans of augmentation.

The United States Bureau of Reclamation appears to have established a firm position in the subordination of a portion of their water rights that involve the Upper Gunnison Basin. This has resulted in a revised well permit policy and part of the Upper Gunnison Basin is no longer considered an over-appropriated system.

The increased emphasis on dam safety has had some impact on personnel throughout Division Four. However, Division Four is pleased to note that the majority of the field personnel responsible for reservoir administration have always taken a very active part in field inspection and evaluation of reservoirs and the many dams throughout the division. Several structures were requested to be looked at and this was accomplished in a timely manner.

The change in the specifications concerning jurisdictional dams is considered to be a positive step and also the requiring of intent to construct non-jurisdiction dams shall be helpful; however, at this time, this particular policy is not widely assimilated throughout the division.

4. Problems, Concerns, Issues not Addressed During the Year: It remains impossible to thoroughly visit all diversion structures during the irrigation season. It is necessary that water officials organize their time, and in some instances, choices had to be made and various concerns were left unaddressed. The water officials experienced increased demands and very often, insufficient time to address all needs. The water using public is demanding better diversion records and in some cases, due to personnel and time limitations, it is not possible to show improvement for the year.

During 1984 the division office was not able to make any significant effort in the mapping of irrigated acreage due to the demands of required abandonment list and Water Rights Tabulation. Also, budget limitations made it necessary to reduce mileage for field staff to travel and work in the division office.

5. Effect of Workload Change: In the past ten years, increases in division staff have been very limited and the field commissioners are not able to always keep up with new water rights. These new decrees have in some instances nearly doubled their field workload, and commissioner time and staff have not increased accordingly. Many of the new, along with some of the old, water rights are not identified adequately in the annual diversion records.

The division continues to increase their participation in the evaluation, inspection, and review of new water rights applications. This can be a very time consuming activity and in some instances, require the neglecting of other responsibilities in order to meet the court and statute set deadlines.

Division Four assisted in the research and coding of three water districts from Irrigation Division Five for tabulation purposes. This involved six of the full-time employees and approximately six weeks of full-time work. These individuals checked and corrected nearly every court action within these particular water districts. It was necessary for them to make several trips to Division Five to consult with the

Division Engineer or his representative and devote their total energies to this project for the time mentioned above. This work I am sure, was of great assistance to Division Five and this particular work was considered of a higher priority than other projects contemplated by Division Four.

Budget Impact: Budget restrictions have limited off-season attention to water diversion administration records throughout the entire division. Because so many of Division Four's personnel are part-time employees, and with the ongoing responsibilities assigned to the annual employees, attention to winter diversion records and administration has been kept at a minimum. The records resulting from these activities are considered marginal at best. Division mileage allocations have limited travel during the winter months for some of the full-time employees and this has resulted in the reduced work on special projects in the division. Salary allocations to part-time employees for the division generally met the minimum need to fund the seasonal employees for the irrigation season. During 1984, it was possible to reallocate two part-time employees in the Cedaredge area and combine these positions into one position with some additional months This time saved was sufficient to allow the remainder of the part-time employees in that area to fully complete the irrigation season and be allowed some time for earned annual leave after their water administration duties were completed. This action was received locally as very controversial. The matter was discussed by all the water users within the affected area. Meetings were held, committees were formed, and petitions were circulated; however, the change was implemented and it was considered successful for the year 1984. It should be noted that 1984 was considered an excellent water supply year, and it is not known what impact might occur if a less than average irrigation year were to occur in this area. All change however minor is met with considerable resistance in most instances throughout the division, and usually takes months of lobbying on the part of the field and division staff to persuade the water users to accept the proposed changes.

B. 1985 Water Year

1. Problems and Concerns to Impact Division Operations: Water right filings continue to have time and budget impact throughout Division Four. This is not considered a negative impact; however, it requires specific planning and setting of work priorities by all employees. These activities effect the majority of the division staff and requires considerable additional field attention in the areas where heavy filings take place, i.e., Upper Gunnison Basin, parts of San Miguel drainage, upper Uncompandere drainage, and most locations throughout District 40. The required special attention and administration of water right augmentation plans will add additional responsibilities to field personnel and division office staff.

The changing status of the Upper Gunnison Basin relative to the ground water over-appropriation position will continue to generate inquiry and concerns throughout the local area. Conditions in this area have been in a state of transition with some significant change being brought about by the subordination of the Bureau of Reclamation senior storage rights.

At this writing, we are not able to fully anticipate the impact that will be generated by the legal activities surrounding the proposed abandonment of water rights in Division Four. As earlier mentioned in the report, only a few protests were entered until the final two weeks of 1984 at which time 120 protests were filed. It is anticipated that at the very least, court time required in attending to these cases will be nearly a month and this could very likely start at the beginning of the irrigation season.

Another concern to division operations is the completion of the Ridgway Dam in the summer of 1985 and the development of administrative procedure in storage and release from this structure. An always present concern is the ongoing improvements of diversion records, measuring devices and diversion structures. Improvement always seems to be appropriate in some areas throughout the division, and as a higher quality of diversion records are demanded, upgrading of these structures become more important.

- 2. Particular Problems and Concerns That Will Not Be Addressed:
 Attention to winter diversions again will be addressed only as needed on a minimal basis. However, there should be some improvement over the past year. Many water rights throughout the division will not be recorded; however it is anticipated that infrequent records will be increased on some of the structures in order to at least identify the diversion use. It is felt that the division should be able to address and adequately take care of the majority of problems that may arise during the 1985 irrigation season and barring unforeseen weather conditions or significant personnel losses all the responsibilities of Division Four should be adequately attended to.
- 3. Projected Work Items Planned for 1985 for the Division Staff: During the winter of 1984, the division staff will continue to update and correct Water Rights Tabulation. The division staff hopes to continue the mapping or identification of irrigated acreage throughout the division. It is hoped that at least five per cent of the total acreage can be mapped during the winter season. (The goal set for 1984 was not met, perhaps one to two per cent additional mapping was accomplished.)

Better planning toward the inspection, review and consultation process of new water right applications is planned for 1985. It is proposed that the division field staff increase the total number of structures identified and records kept by seven to ten per cent during the 1985 irrigation season.

4. <u>Division Priorities in Terms of Goals and Objectives</u>: Division Four needs to continue working toward improvement of water administration and diversion record-keeping throughout the 1985 season. To respond to all the protests of the 1984 proposed water right abandonments. To keep as current as possible in the ongoing review and consultation of new water right applications with the Water Court. To pick up and conclude water right cases that are outstanding for more than one year. To continue an ongoing instruction process with field personnel concerning their water administrative and record-keeping responsibilities. To continue to be sensitive to the public concerns as they relate to the Division of Water Resources and to respond in an accurate and timely fashion.

To utilize the satellite monitoring system recently installed and to utilize the computer equipment that is now part of Division Four's standard office equipment will be considered a major objective during 1985. It is hoped that all key personnel, both office and field, will have a working knowledge of these various pieces of equipment in order to access remote gaging terminals and also to access other division data through the computer system as needed. To reach this particular objective, it is anticipated that a formal study instructional program will be instituted with the various staff members being involved in classes throughout the winter months and as necessary, during the irrigation season. One final objective of the computer equipment is to be able to utilize the word processing capabilities on a regular basis.

II. Recommendations

A. Policies

- 1. Water Administration: It is not anticipated that there will be any significant change in the policies of Division Four during 1985. The division will continue to meet the responsibilities of water administration throughout the division area and to be responsive to the directions of the State Engineer and the requests of the water using public. It is hoped that the quality and quantity of diversion records can be improved and it is a goal to improve at least five per cent during this irrigation season. This would include increasing the number of visits to diversion structures, better coordinating the activities of field personnel, eliminating duplication, working toward closer contact of division office and field personnel and improving communications between the division office and the Denver office of the Division of Water Resources.
- 2. <u>Personnel</u>: Division Four is faced with the replacing of one Water Commissioner "B" at the end of the 1985 season. This is due to the retirement of Lester Whiting, and it is hoped that recruitment for this replacement can begin prior to his retirement. No other personnel changes are anticipated during the 1985 season; however, it is the experience of this office that at least one individual in one of the part-time jobs will be leaving state employment before the conclusion of the irrigation season. Additional goals for the 1985 season includes the improvement of planning and review of employees under the PACE system, a/k/a FAPAS. It is hoped throughout the division that this procedure will have greater meaning to all personnel.
- 3. <u>Budget</u>: With the consolidation of two positions in Water District 40, and the rearranging of man-months available for allocation to Water District 40 and throughout the division, the total allocation of man-months for part-time employees is now near what is considered necessary to maintain the present level of water administration throughout the division. These allocations are considered minimum without any latitude for unusual situations such as particularly dry years, unusual weather conditions, etc., and does not leave any additional time for attention to special needs and projects during the winter season.

- 4. Litigation Activities: Division Four's policy is to minimize the necessity of litigation as much as possible through close communication with the State Engineer's office, the Water Court, and the various water user applicants. It is anticipated that one or two cases during 1985 may be subject to the legal process. At the present time, there is one deep non-tributary water well right application that has been opposed by the State Engineer. It is not anticipated that this matter will be carried to a court hearing; however, it will be necessary to monitor this particular action. It is also possible with the great number of protests to the Division Engineer's Abandonment List that the Attorney General's assistance will be requested and needed during various parts of the court hearings concerning these abandoned water rights. At this writing, the court has given no indication on how these matters will be addressed; however, there is some anticipation that the court may inquire as to the position and intent of the Division of Water Resources identifying these water rights.
- B. <u>Personnel Changes</u>: At this writing, there is one employee in Division Four who will retire at the end of the 1985 irrigation season. This is Lester Whiting and his area of responsibility is in Water District 42, specifically the Kannah Creek drainage. Mr. Whiting's 70th birthday will be during the month of June; however, request has been made and approved for an extension to the completion of the 1985 irrigation season. Due to the great number of part-time employees, it is anticipated that there is a good chance that one other employee somewhere throughout the division will be changing jobs before the conclusion of 1985. This concern will be attended to whenever it arises.
- C. <u>Budgetary Priorities</u>: (See A.3.) Several items are considered important concerning budgetary priority for 1985. The funding of the recommended promotions would probably be considered foremost. Additional concern would be increasing the division operating fund. It is anticipated that with the mandatory cuts and increased state vehicle costs that this total allocation will be somewhat short of the needs for 1985. It is also considered important to replace the division staff vehicle, and consider replacing the division hydrographer's vehicle, and the purchase of an additional vehicle for Richard Belden who consistently exceeds the 15,000 mile annual mileage level.
- D. Administrative Practices: It is anticipated in 1985 that the division will be more involved in the administration of plans of augmentation, dam safety inspections and reports, better and more accurate diversion records, arbitrators in jurisdictional water disputes, and a general attention to the various responsibilities as in past years.

E. Legislation:

F. Other: It is recommended that the Division of Water Resources consider establishing a formal or informal training program responsible for regular training sessions to division staff and water commissioners. Also, teaching on matters such as personnel management, field instruction concerning ground water to field water officials, dam safety follow-up classes, computer instruction and operation, and many other associated subjects that involve the responsibilities of the Division of Water Resources and the irrigation divisions.

III. Statistical Information

- A. Transmountain Diversions (See attached tables.)
- B. Storage Water (See attached tables.)
- C. Water Diversions (See attached tables.)
- D. Court activities (See attached tables.)
- E. Office Administration: It is not anticipated that the office administration shall change significantly from past years. The office is open from eight o'clock to five o'clock to assist the general public in water related matters. We will continue to direct and advise water well applicants, help with routine water right applications, interpret water decrees, and present the position of the State Engineer to the public.
- F. <u>River Calls</u>: The mountain snow-pack at this time is above average; however, not nearly as great as in 1984. Some stream administration was necessary during 1984 in the Cedaredge area and on Kannah Creek. It is considered that this would be a similar area for river calls during 1985. The remainder of the division should have sufficient water to meet all anticipated needs and a call is not anticipated except as noted above.
- G. <u>Compact Deliveries</u>: Division Four is under the Colorado River Compact and at the present time, there is no administration involvement in the delivery of water to the Colorado River Water Compacts.
- H. Administration of Plans of Augmentation: During 1984 there was not any administration of plans of augmentation throughout the division. This was primarily due to the great abundance of flow in all drainage areas. It is possible that in 1985 it may be necessary to make some minor administrative releases in order to address injury created by out-of-priority diversions. However, this is not considered to be a major item during the 1985 irrigation season.

1984 TRANSMOUNTAIN DIVERSIONS SUMMARY - INFLOWS

											butary		
SOURCE	WD STREAM		72 Leon Creek								30 Animas River Tributary 30 Mineral Creek		
000000	DAYS		118								00	-	
TVB OF DE	4	,	1,923								00	I	1,923
1 VD	DAYS		83								00		
dvi silotuadd	r ne v 1003 AF										0 0		1,859
RECIPIENT	STREAM		Surface Creek								Uncompahgre River Uncompahgre River		
	NAME	None	Leon Lake Tunnel	None	Carbon Lake Ditch Red Mountain Ditch	None							
	WD	28 No	40 Le	41 No	42 No	59 No	60 No	61 No	62 Nc	63 Nc	68 Ca Re	73 No	TOTAL

		PREVIO BEG. IYR	R I.SE	BEG. IYR	IYR BE	OF REC	ORD AS.E	ND IYR
WD RESERVOIR NAME	STREAM SOURCE		[24	(II			%	AF
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28 Hot Springs Reservoir	HOU SPITINGS Creek	805 100	805 100	7 7 7	÷ 00	805 1	00	805
MCDORO	Pinos Cre	42 48	42 48	42	34	87	0	∞
	dle Creek	13 4	42 8	· 01	58	10	L ~	47
Upper	Cochetopa Creek	95 4	92 5	42	20	0		4
Vouga Reservoir	維	65 6	10 10	92	54	\leftarrow	0	က
MAJOR								
40 Alexander Lake Res.	Ward Creek	8	57 10		7.7	~	100	49
0 A	Muddy Creek		16 10	0		16	Ō	0
Baile	Leroux Creek	0 2	23 10	43		23	0	
Barren	Kiser Creek	19 9	0 10		65	00	0	206
40 Basin #1 Reservoir	y George Cree		58 10	ည		28	0	
40 Basin #2 Reservoir		0	63 5	0		41	3	
Battlemen	Cree	10	13 10	_	00	13	0	713
Baxter Rese	Fork Cree	18 10	18 10	18 1		18	100	-
eaver	Escalante Creek		96 10		0	96	0	0
40 Beaver Reservoir			08	123	9 1	4	82	0
	Hubbard Creek	0	50 9	0		20	9	
arbonate	Youngs Creek	8 9	13 10		44	13	100	86
Ö	Youngs Creek	9 99	08 10	0	0	98	∞	<u></u>
Carl Smith	Leroux Creek	9 6	38 10	0		38	0	
0 Cedar	Surface Creek	80	926 100	325	35	926	100	
40 Cole #5 Reservoir	Surface Creek		17 10	0	0	17	0	
	Muddy Creek	0	176 10	0	0	92	00	17
40 Crawford Reservoir	Iron Creek	71 5	00 10	13 83		00	00	C1
	Kiser Creek	7	28 10		61	28	0	_
40 Deep Slough Reservoir	Ward Creek	12 4	98 10	61		86	0	25
40 Deep Ward Reservoir	Ward Creek	43 6	00 10	13		00	0	S
40 Dog Fish Lake Reservoir	Leroux Creek	0	43 10	0		43	0	
	Kiser Creek	9	77 10		9]	77	0	184
Dowdy Re	Leroux Creek	0	64 10	0		64	0	
40 Dugger Reservoir	Oak Creek	17 5	12 10	7		12	0	
40 East Beckwith #1 Res.	Anthracite Creek	156 4	360 10	80		09	0	(
40 Eggleston Lake Res.	Kiser Creek	50 8	05 10	.		02	\circ	
40 Elk Wallows Reservoir	Leroux Creek	18 10	18 10	ပ		18	0	
		-10-						

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⊙	RESERVOIR NAME	STREAM SOURCE		%		%	ΑF	%		\$?	A F
	MAJOR								÷		
40	Ella Reservoir	Leroux Creek	0	0			0	0		90	0
40	Fruitgrowers Reservoir	Dry Creek	3,503	81	4,312	100	1,927	45	4,312	100	1,453
40	Goodenough Reservoir	Kiser Creek	6		4		9		4	Ö	-
40	Goodenough #2 Res.	Leroux Creek	684	78	t-		372	43	-3	0	
40	~	0	~		~		9		0	91	S
40	Grandby #12 Reservoir	cr	9				∞		3	∞	0
40	Gray Reservoir	Leroux Creek			Ø	0	$^{\circ}$		S	100	
40	Hanson #2 Reservoir	Leroux Creek	0		Ñ	0	0	0	Ø	0	0
40	Holy Terror Reservoir	Terror Creek	0		4				4	0	
40	Hotel Lake Reservoir	Ward Creek	က		4	0	S		4	0	45
40	Island Lake Reservoir	Ward Creek	1,251	75	~	0	1,454	87	~	Ò	1,317
40	Kehmeir Reservoir	Surface Creek	~		$^{\circ}$	0	~		\circ	0	
40	Kiser Slough Reservoir	Kiser Creek	9		$\overline{}$	0	S		\vdash	0	∞
40	Knox Reservoir	Surface Creek	က		4	0	5		4	0	4
40	Kennicott Slough Res.	Kiser Creek	~		\vdash		$^{\circ}$		$\overline{}$	O,	~
40	Lake Brennand Reservoir	Anthracite Creek	9		9				9	100	
40	Leon Lake Reservoir	(Transmountain)	က		S	6	က		0	6	S
4.0	Leon Park Reservoir	Surface Creek			~	0	—		g	∞	
40	Little Gem Reservoir	Ward Creek	118	54					~	100	219
40	Lone Cabin Reservoir	Minnesota Creek	0	0	S	0		17	S	0	0
40	Marcott Park Reservoir	Surface Creek			4	∞			せ	Ç	
40	McKoon Reservoir	Youngs Creek	121	82	4		105	7.1	4	100	139
40	Military Reservoir		S		3	0			$^{\circ}$	0	
40	Monument Reservoir	Minnesota Creek		0	46				46	95	
40	Onion Valley Reservoir	Crystal Creek	430	2			4,301	47		86	2,668
40	Overland #1 Reservoir	Hubbard Creek			3,36	∞			4,00	66	
40	Paonia Reservoir	Muddy Creek	6,319	34	,46	0	$^{\circ}$,46	100	9
40	Park Reservoir	Surface Creek	, 93		, 38	0	, 74	Ω	, 38	100	. 75
40	Patterson #2 Reservoir	Leroux Creek	0		S				S	100	2
40	Pedro Reservoir	Youngs Creek			6	0	<u>~</u>		9	100	က
40	Pitcairn Reservoir	Doughspoon Creek	_		~	~			0	100	0
40	Porter #1 Reservoir	Oak Creek	201	100	0	0	125	62	0	100	163
40	Prebble Reservoir	Youngs Creek	9		5	0			∞	76	9
40	Reynolds Reservoir	Reynolds Creek			0				0	100	
40	Rim Rock Lake		37	35	0	0	107	100	0	100	107
40	Hockwell Reservoir	Iron Creek	0	0	_	0	2	4	_	100	0

BESERVOIR NAME STREAM SOUF Sackett Reservoir Scotland Peak Reservoir Spatafore Reservoir Todd Reservoir Trio Reservoir Twin Lake Reservoir Twin Lake Reservoir Twin Lake Reservoir Tyler Reservoir Tyler Reservoir Tyler Reservoir Tyler Reservoir Ward Creek Wela Reservoir Ward Creek Wela Reservoir Ward Creek West #1 Reservoir Williams Creek Res. Williams Creek Res. Williams Creek Res. Surface Creek Welliams Creek Res. Surface Creek Williams Creek Res. Surface Creek Womack #1 Reservoir Williams Creek Res. Womack #2 & #3 Res. Youngs Creek Young Creek Res. #3 Youngs Creek
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G₩	D RESERVOIR NAME	STREAM SOURCE	PREV BEG. IYR AF %	IOUS IYR BEG.I.SEAS. AF %	BEG. IYR AF %	IYR OF RECORD BEG.I.SEAS. AF %	END IYR AF
	MAJOR						
4.	Ander	Kannah Creek	9 86	466 10	13 8		386
4.	Ander	Kannah Creek	7 0	568 10	N	68 10	158
4.	Anderson #6	ah	65 6	100 10	80 8	00 10	0
4	Bolen Reserv	Kannah Creek	15 5	9 535 100	256 48	35	235
4	Bolen		9 6	293 10	8	93 10	0
4	Carson	Cre	37 10	637 10	10	37 10	637
4	Deep Creek Re	Kannah Creek	0 2	350 10		50 10	0
4	Dry Cr. Res.	Kannah Creek		230 10		30 10	0
4	2 Flowing Park Reservoir	annah	C/I	782 10		82 10	
42	Fruita Reser	. East Cre	RCD	NO RCD	NO RCD	CD	NO RCD
4	Fruita Reservoir	FK	0		0	0	
4	Fruita Reservoir	Cre	CD	NO RCD		RCD	NO RCD
4	Grand	nah	75 2	348 10	9	8 10	7.0
4	Grand Mesa #6	Kannah Creek	0	0		30 1	0
4	Grand Mesa #8	Kannah Creek		0		0	0
4	Grand Mesa #9	Kannah Creek	0	0	0	53 10	0
4	Hollenbeck #1 R	Kannah Creek	45	680 10	တ	0 10	563
4	2 Hollenbeck #2 Reservoir	Kannah Creek	15	503 10	81 1	503 10	
4	Juniata Reservo	Kannah Creek	5,550 8	10	6,723 100	23 10	6,385
4	Mirror I	No. Fk. East Creek	140	190 10	20 6	O RCD	0
4	Scales	Kannah Creek	0	130 10		30 10	0
4	Scales No	Kannah Creek	0	101 10		1 10	0
ব	Somervill	Whitewater Creek	0	837 1		37 1	0
	MAJOR						
C	9 Tavlor Reservoir	Taylor River	15	108,100 10	40 6	108,100 10	
2	pring	pring		8 1,630 100	820 5	1,630 100	
5	Rainbow	Willow Creek	20 - 1	120 10	60 5	120 10	
5	Σ	14	06	500 10	9 0	500 10	250
	ОТИЕК			,			
5	9 Various		0	0 15 100	10 67	15 100	0

24	000000000000000000000000000000000000000	0	0 0	000000000000000000000000000000000000000	000 8
END IY AF	5,111 76 76 4,96 3,111		1,30	767,70 115,30 17,51 17,51 5,67 9,78	19
CORD EAS.	100 100 100 72 100	100	100	81 99 100 100 100 100 22 95	100 100 100
YR OF RE BEG.I.S AF	9,730 494 1,400 4,966 3,382	24	1,700	669,400 115,900 18,200 13,600 9,786 143 522 165 65	122 155 171 222
I YR I YR %	40 38 42 45	0	76 35	84 94 78 36 100 59 62 52 52	0 0 0 98
BEG. I	3,866 191 530 4,966 2,850	0	1,300	695,800 109,800 14,230 4,865 9,786 325 325 25	0 0 0
EAS.	64 100 100 73	100	100	100 98 93 100 100 100 100	100 100 100
OUS IYR BEG.I.S AF	6,211 494 1,400 2,476 898	24	1,700	823,900 114,706 16,950 13,600 9,786 9,786 143 522 165 25	122 155 171 222
REVIO IYR %	53 18 64 100 72	0	41	88 97 93 100 70 19 27 12	0 0 0 83
BEG. I	5,112 88 900 3,382 643	0	700	723,600 114,000 16,910 5,530 9,786 100 100	0 0 0
STREAM SOURCE	Beaver Creek Naturita Creek Naturita Creek Naturita Creek San Miguel River Horsefly Creek		Stateline Ditch	Gunnison River Gunnison River Gunnison River Big Cimarron Big Cimarron Big Cimarron Big Cimarron Big Cimarron	West Creek West Creek West Creek
WD RESERVOIR NAME	MAJOR 60 Gurley Reservoir 60 Lilylands 60 Lone Cone 60 Miramonte Reservoir 60 Trout Lake 60 Paxton Reservoir	OTHER 60 Various MAJOR	61 Buckeye Reservoir OTHER 61 Various	MAJOR 2 Blue Mesa Reservoir 2 Crystal Reservoir 2 Silverjack Reservoir 2 San Cristobal Reservoir 2 Fish Creek No. 1 Res. 2 Fish Creek No. 2 Res. 2 Soderquist Reservoir 2 Arrowhead Reservoir 2 High Park Lake	MAJOR 3 Burg Reservoir 3 Casement Reservoir 3 Casto OTHER 8 Various
≩	99999	9	9 9	000000000000000000000000000000000000000	63 63 63 63

1984 WATER DIVERSION SUMMARIES BY DISTRICT

	AVERAGE PER ACRE	7.29	3.83	5.75	3.53	9.28	3.52	3.50	2.81	7.47	3.57	2.96	4.98	20 5 20
	NUMBER OF ACRES IRRIGATED AF	34,391	120,510	109,890	8,352	35,220	29,750	3,282	39,250	2,887	22,160	2,553	408,245	African Louis Lucian LT
# # E	TOTAL DIVERSIONS - AF -	250,547	461,672	**631,353	29,502	326,850	104,733	11,489	110,120	21,557	79,190	7,556	2,034,569	20 A THE CANADA CALLES AND ASSESSMENT TO CO. 100 CO. C.
TOTAL	DIVERSIONS TO STORAGE - AF -	1,824	52,656	41	4,379	40,910	7,888	2,493	629,310	448	222	0	740,171	m
TOTAL	DIVERSIONS - AF -	249,590	442,705	**886,026	24,357	289,214	108,959	25,608	***4,476,107	22,742	86,024	7,556	6,618,888	1000
ESTIMATED	NUMBER OF DITCH	2,065	20,031	2,185	3,080	2,122	2,332	1,250	1,032	835	1,502	227	36,661	000 AF imported through the
REPORTING	INACTIVE NU NR	55	884	147	100	39	100	27	53	30	260	53	1,748	4 4 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
	INAC	52	56	0	က	21	183	0	127	ි ග	124	ည	580	7V 0UC
DITCHES	I VE NWA	0	0	0	17	0	0	0	0	19	0	6	45	733
TOTAL	ACTIVE WA N	363	790	462	41	202	383	72	230	53	164	27	,404	אייויים לאייליי
e 	M D	28	40	41	42	59	09	61	29	63	89	73	TOTAL2,404	*TT * 0

^{*}This includes 233,909 AF imported through the Gunnison Tunnel. This amount consists of 4,538 AF diverted from WD-62 for municipal use and 229,371 AF for irrigation.

^{**}These figures include approximately 200,000 AF water diverted through project canals to alleviate flooding on main stem. ***This includes 4,140,292 AF diverted through the turbines of the Curecanti units.

COMMERCIAL 2,078 12,729 4,140,292 Dio 4 30 1,460 1,441 4,085 1,371 FISHERY 1984 WATER DIVERSION SUMMARIES BY DISTRICT IN ACRE FEET (Continued) INDUSTRIAL RECREATION 1,102 1,548 5,002 1,700 143 24,725 847,286 110,350 108,034 363 324 648 410 206 175 DOMESTIC 4,538 6,200 1,247 850 MUNICIPAL 2,894 1,509 4,538 1,459 6,222 594 19,134 23,065 STOCK TRANSBASIN OUTFLOW 553 173 233,909 1,203 TRANSMTN OUTFLOW 1,144 1,196 855 489,043 59 62 89 28 40 60 63 WD 42 61 41

87

4,155,186

8,387

1,099,890

687

1,439

15,729

56,521

235,838

492,238

TOTAL

73

WATER COURT ACTIVITIES

No.	Applications for Decrees		448
No.	Protests under Application	s 123	
No.	Structures Proposed Abando	ned 334	
No.	Consultations with Referee		522
No.	Decrees Issued by Water Co	urt	285
	Type of Decree		
	Surface Water	214	
	Ground Water	70	
	Reservoir	31	
	Transfer	9	
	Alternate Point	2	
	Change of Use	25	
	Plan Augmentation	13	
	In-Stream Flow	91	
No.	Structures in Decrees		460
	Types of Structures		
	Ditches	279	
	Reservoirs	38	
	Wells	143	

TABLE OF ORGANIZATION - PERSONNEL

IRRIGATION DIVISION NO. 4

Division Engineer - Ralph V. Kelling Assistant Division Engineer - Thomas A. Kelly Secretary - Jean Kurtz Hydrographer - Charles G. David

Water District 28	Water District 40	Water District 41
WATER COMMISSIONER John S. Garber	PR. WATER COMMISSIONER *Richard L. Drexel	WATER COMMISSIONER Crandall Howard
	SR. WATER COMMISSIONER *Robert H. Starr	
	WATER COMMISSIONERS	
Water District 42	Tim Bacon Willard N. Bull	Water District 59
SR. WATER COMMISSIONER	Mack Gorrod	WATER COMMISSIONER
*Richard Belden	Henry LeValley Albert Mahannah	*Edwin S. Hofmann
WATER COMMISSIONER	**Kenneth Mahannah	WATER COMMISSIONER
Lester Whiting	John L. McHugh James Miller L. Gregg Scott Charles E. Stein Stephen W. Tuck Charley E. Woolley	Robert Drexel
Water District 60	Water District 61	Water District 62
WATER COMMISSIONER Lyman D. Campbell	WATER COMMISSIONER Clinton L. Oliver	WATER COMMISSIONER Edwin S. Hofmann
Water District 63	Water District 68	Water District 73
SR. WATER COMMISSIONER Richard Belden	WATER COMMISSIONER *H. Roger Noble	SR. WATER COMMISSIONER Richard Belden

WELL COMMISSIONER *Dwayne Mansker

*Annual
**Temporary Employee