ANNUAL REPORT

WATER DIVISION 5

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ANNUAL REPORT

WATER DIVISION 5

I. WATER ADMINISTRATION

A. 1988 Water Year

In 1985 a lot of projects were identified and started as well as implementation of new procedures for about everything done in Division 5. In 1986 the work force jelled and a great volume of work, both accurate and professional, was accomplished. 1987 was a year of continued effort on many fronts and an increase in staff by 1 Engineering FTE. 1988 has been the payoff year where much of the backlog is finally behind us.

The year started in a frenzy with more rewrites on the WISP diversion data programming than we could tolerate. Consequently, the Annual Report was delayed. The frenzy only increased with March and April deadlines on the Tabulation. Many, many extra hours were worked by nearly everyone. The arrival of the runoff beginning the irrigation season was a welcome change of pace. However, the pressure continued because the short water year and heavy administration required kept it on us.

For the year we had 1 Water Commissioner retire, filled 1 Water Commissioner position for last year's retirement, 1 Engineer C transfer to Dam Safety Branch but remain in the Division 5 office, the Assistant Division Engineer replace his hydrographic duties with spreadsheet writing, and a Hydrographer transfer in thereby filling the vacant Engineer position.

Basically it was a plug-and-chug, grind-it-out year for all the staff.

1. Accomplishments

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

The biggest milestone reached, however, was the publishing of the 1988 Tabulation. The many man-years of quality work involved in getting it ready was quite an accomplishment. A part of that was the culmination and decree of the abandonment proceedings. Another was the coding and inclusion of thousands of other new decrees including hundreds of augmentation plans. The largest part, however, was the reworking of the older tabulated material and, again, I would mention the assistance of Divisions 4 and 7 years ago.

Water District 36 and augmentation plans for Districts 36 and 37 are a glaring hole now being dealt with.

An offshoot of the Tabulation was the ability to generate much-needed current status administrative lists for individual streams or combination of streams. These greatly enhanced the Water Commissioners' ability to administer water correctly in the short water year.

The Tabulation was also used as a starting point to correct up the diversion structure data base which also greatly upgraded the work the Water Commissioners were able to do.

There were 328 water court applications in 1986, 398 in 1987 and 483 in 1988. Most of these were field inspected, have had water referee consultations written, and were decreed. Some Water Commissioner training on the field inspection process has been done.

The 1987 diversion records were completed and signed.

The 1988 diversion data of water usage has been collected and entered into the diversion data base. We are now going through the last revisions of the printouts and readying them for signing by the Water Commissioners. The in-house PC and software are continuing to revolutionize this process.

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

A total river call was administered much of the year--not perfectly by any means--but many of the individual parts are coming together. The Colorado River Accounting software is about 90 percent complete and usable. Water Commissioner understanding and ability to timely deliver real time diversion data is increasing and for the first time the records reflect replacements from Green Mountain Reservoir and the exchanges involved.

Last year each Water Commissioner diagrammed and coded a system for record keeping for diversions, deliveries, and water use for each non-ordinary (Source=River, Use=Irrigation, etc.) diversion. The inclusion of these in this year's records greatly enhanced the quality of the records. Also the percentage of diversions for which records are kept increased from an estimated level of 50 percent to perhaps 70 percent. User-supplied data is being solicited in many instances, particularly in small spring and well situations and in nearly all municipal supply situations.

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

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

A field engineer position for the Dam Safety Branch was moved to Division 5 in 1988. This action resulted in better communications with dam owners and the Water Commissioners. It also helped bridge the gap between reservoir administration problems and dam safety concerns. For example, an order was issued by the Dam Safety branch to drain a reservoir and fix the outlet for both safety and administrative reasons. This type of order has never been issued in the Division before. It appears at this time that the outlet problem will be resolved next year.

The Water Commissioners completed 51 dam inspections of the 62 assigned. Along with these dam inspections, the Water Commissioners accompanied and helped the new dam inspector with his inspections.

A total of 45 reservoir inspections were carefully monitored by the Water Commissioners. This number was reduced to 35 by the end of the season by the lifting of 10 restrictions. This was largely due to owners' cooperation, the adoption of new rules and regulations for dam safety which relaxes some requirements for small low hazard dams, and the better communications between dam owners and the dam inspector and Water Commissioners. No new restrictions were imposed but three (3) repair or breach orders were made.

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.

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

3. Issues Impacting Division 5

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

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

(1) The rapid growth in the high country combined with ski industry demands, including water for snow making, has necessitated not only more augmentation plans but increasingly complex augmentation plans requiring more manpower and expertise in administration.

(2) East Slope demands, such as Windy Gap, Northern Colorado's major transmountain water diversion, have come on-line and effectively depleted any excess water in the Upper Colorado River requiring more stringent administrative practices. The exchange pool from Windy Gap for the Middle Park Water Conservancy District will create additional measurements and paperwork to track water exchanged up the Blue River for snow making and municipal uses.

(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.

(5) Finally, a major agreement was worked out last year with the Colorado River Water Conservation District which basically gives Western Colorado a number of storage reservoirs for their usage, gives Northern Colorado several storage reservoirs for their replacement usage, and gives the Denver Metro area the Blue River and Williams Fork River, including Green Mountain Reservoir.

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

The above quote from last year's Annual Report couldn't have been more on target in that a multiplicity of court applications including motions to clarify have been filed in both the State and Federal District Courts concerning the operation of Green Mountain.

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

(1) Conditional water rights have been left undeveloped, water rights that were transferred from agriculture to industrial uses have been left standing and once farmed lands are turning to sagebrush. Oil prices will rise again and therefore the industry is protecting their rights but the population growth pressures associated with it have waned.

(2) Agriculture, along with the economy on the lower river, is just getting by. With farm prices as low as they are and real estate falling terribly with the oil shale industry, there is little incentive to use water and maintain agriculture. The bright spot continues to be the good fruit crop this year and the rise in cattle prices.

(3) 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.

(4) Finally, governmental policies are continuing to slowly shift toward more emphasis on environmental issues. The federal government has been heavily involved in cleaning up the salinity problems in the Grand Valley. The Federal Fish and Wildlife Service is making overtures toward storage pools in West Slope reservoirs to be used for endangered species programs. The United States Bureau of Reclamation is less involved with large agriculture projects. Even the Colorado Water Conservation Board's involvement centers around minimum streamflows and fish and wildlife habitat.

The adoption of the Colorado River Accounting which is being phased out by the United States Bureau of Reclamation has put considerable strain on our manpower. This project has had to be absorbed by our staff and the hydrographic work necessary is left undone. A bill designed to create the FTE's and funding support which would correct the deficiencies, although valiantly carried by its sponsors Bishop and Carpenter, died on the last day of the legislative sessions. It also was supported by many days' work by Division personnel, the State Engineer, the Denver Water Board, Northern Colorado Conservancy District, and the Colorado River Water Conservation Board.

4. Issues of Concern

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

-- Do not have the hydrographic staff to handle the river accounting. (See Notes (1), (2), and (3) below and on the next page.)

-- Number and complexity of augmentation plans are prohibitive to administer with existing staff and methods.

-- Much work is still needed on the tabulation prior to final publishing. (Water District 36 and augmentation plans)

-- Thirty percent of the structures have no record at all.

-- Many diversion records are estimated rather than observed.

-- Staff gauges and capacity tables are almost non-existent for reservoirs.

-- Many of the structures have no control and/or measuring devices.

(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.

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

(3) 300,000 to 500,000 acre feet of diversions are not monitored for quality control by any neutral party, which creates nervousness and feeds East Slope/West Slope tensions.

5. Effect of Workload Changes

The adoption of the Colorado River Accounting, the increasing Water Court activity, increased pressure in the high country because of minimum stream flow versus ski area development and out-of-basin demand for water all placed extra time demands on the Division 5 office staff. More time was also spent in management practices and training of personnel. The increased productivity of personnel and better equipment and data management facilities have helped us to keep pace. It is also true that each year more of the backlog is finalized and thus some time comes available to handle the increase but the bottom line is that the Blue River is not being covered and the River Accounting only hits the high spots and leaves the wolves guarding the hen house.

6. Impact of the Budgets on Operations

We do not have enough FTE's to put Water Commissioners in each Water District. Additionally, 11 of the 16 Water Commissioners are part-time employees and the seasonal nature of their employment severely hampers the updating of structure lists, administrative lists, tabulations, or any other non-direct water administration activity. Another problem is that as the jobs are becoming more complex, adequate training is harder to achieve. The pressure is for part-timers to seek full-time employment and, threfore, a problem. 69% 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 by transferring travel money to operating.

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

B. 1989 Water Year

1. Operational Concerns

1989 will be the year of finishing old projects and moving on to new ones. We are still working on a sizable backlog but expect to bring much of that to an end. The real problem is the large backlog of untabulated decrees. Most are very complicated augmentation plans or large multi-structure decrees covering several water districts. We continue to deal with the present as needs dictate and are implementing projects necessary to provide the basis for better administration in the future.

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

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

2. Projected Work Items for 1989:

Other than the usual business of:

(A) administering water,
(B) collecting and recording diversion data,
(C) reservoir inspections,
(D) hydrographic work, and
(E) reviewing water applications,

the following are Projected Work Items for the next year and for the next five years:

(1) Train Water Commissioners in:

(a) Standardization of municipal record keeping.

(b) Field inspecting augmentation plans.

(c) Creating schematics and coding for augmentation plans.

(d) Administration of reservoirs.

(e) Administration of exchanges.

(2) Find all fee wells and generate records.

(3) Finish Tabulation work for District 36.

(4) For Augmentation Plans:

(a) Finish Tabulation of Augmentation Plans.

(b) Establish an Augmentation Plan data base that can be used for administration.

(c) Establish an accounting system for each active augmentation plan.

(d) Install control structures and measuring devices as necessary.

(e) Obtain field data.

(f) Administer.

(5) Add 1988 decrees to Tabulation.

(6) Add 1988 decrees to structure lists.

(7) Do spread sheets for:

(a) Blue River Diversion Project plus Williams Fork plus Moffat System

(b) Continental-Hoosier System.

(c) McMahon/Red Dirt System.

(8) River Accounting Spread Sheet - increase utility.

(9) Finish 1985 diversion records.

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

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

Projected Long-Range Work Items:

(1) Create and assemble a Water Commissioner handbook. (Division 7 is handling)

(2) Implement regular training sessions for Water Commissioners.

(3) Spend time in field with Water Commissioners.

(4) Continue to implement PACE program.

(5) In Colorado River Accounting, continue to:
(a) phase in hydrographic support and
(b) utilize real time diversion data.

(6) Continue upgrading each Water District's tabulations.

(7) Install reservoir staff gages and get capacity tables to match.

3. Goals and Objectives

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

(1) Establish the capability to administer a total river call prompted by either in-state priorities or an interstate water compact requirement.

(2) Uphold all other statutory duties of the State Engineer's office.

(3) Provide the public with service regarding our administration and their needs in water resources.

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

TRANSMOUNTAIN DIVERSIONS SUMMARY - IMPORTS
WATER DIVISION V

1988

		RECIPIENT					SOURCE	
			PREVIOUS IYR		IYR OF RECORD			
WD	NAME	STREAM	AF	DAYS	AF	DAYS	WD	STREAM
38	Roaring Fork Bypass Flow	Roaring Fork River	1,958	283	1,585	280	11	Turquoise River
45	Divide-Highline Feeder	Divide Creek	1,360	64	1,357	56	40	Clear Fork Muddy Creek
50	Sarvis Creek Ditch	Red Dirt Creek	2,210	169	1,481	168	58	Service Creek
53	Dome Creek Ditch	Egeria Creek	414	57	901	NIA	58	Bear River
53	Stillwater Ditch	Egeria Creek	1,040	118	0	0	58	Bear River
72	Redlands Power Canal	Colorado River	549,957	357	559,307	360	42	Gunnison River
72	Grand Junction Municipal	Colorado River	6,689	365	6,143	364	42	Kannah Creek
72	Fruita Water Works	Colorado River	0	0	NIA	NIA	73	Little Dolores River
		TOTAL DIV V IMPORTS:	563,628	1,413	570,774	1,228		

TRANSMOUNTAIN DIVERSIONS SUMMARY - EXPORTS
WATER DIVISION V

1988

(PAGE 1 of 2)

		RECIPIENT					SOURCE	
			PREVIOUS IYR		IYR OF RECORD			
WD	NAME	STREAM	AF	DAYS	AF	DAYS	WD	STREAM
7	Vidler Tunnel	Clear Creek	421	122	743	127	36	Snake River
7	Straight Creek Tunnel	Clear Creek	NIA	NIA	1,218.8	365	36	Straight Creek
23	Boreas Pass Ditch	Tarryall Creek	0	0	58	NIA	36	Blue River
23	Hoosier Tunnel	Main Fork of South Platte River	8,450	149	9,838	160	36	Blue River
80	Roberts Tunnel	North Fork of South Platte River	14,640	123	19,480	365	36	Blue River
11	Homestake Tunnel	South Platte via Arkansas River	20,420	143	33,730	172	37	Homestake Creek
11	Wurtz Ditch	Tennessee Creek	2,200	103	881	57	37	South Fork of Eagle River
11	Ewing Ditch	Tennessee Creek	813	103	1,110	105	37	South Fork of Eagle River
11	Columbine Ditch	Tennessee Creek	1,210	100	1,050	87	37	South Fork of Eagle River
11	Twin Lakes Tunnel	Lake Creek	36,130	365	32,434	365	38	Roaring Fork River
11	Busk-Ivanhoe Tunnel	Lake Fork Creek	3,398	166	4,300	184	38	Fryingpan River
11	Boustead Tunnel	Lake Fork Creek	3,328	52	14,280	43	38	Fryingpan River
		PAGE 1 SUBTOTALS:	91,010	1,426	119,123	2,030		

TRANSMOUNTAIN DIVERSIONS SUMMARY - EXPORTS
WATER DIVISION V

1988

(PAGE 2 of 2)

RECIPIENT							SOURCE	
			PREVIOUS IYR		IYR OF RECORD			
WD	NAME	STREAM	AF	DAYS	AF	DAYS	WD	STREAM
3	Grand River Ditch	Cache La Poudre Rivr	17,246	145	19,890	130	51	North Fork of Colorado River
3	Eureka Ditch	Cache La Poudre Rivr	0	0	40(est)	NIA	51	North Fork of Colorado River
4	Alva B. Adams Tunnel	Big Thompson River	250,219	333	283,980	365	51	North Fork of Colorado River
6	Moffat Tunnel	Boulder Creek	48,878	365	78,570	365	51	Fraser River
7	Berthoud Pass Ditch	Clear Creek	271	55	684	60	51	Fraser River
6	August P. Gumlick Tunnel	Boulder Creek via Fraser River	INCLUSIVE IN		MOFFAT	TUNNEL	51	Williams Fork River
6	Vasquez Pipeline	Boulder Creek via Fraser River	INCLUSIVE IN		MOFFAT	TUNNEL	51	Williams Fork River
40	Leon Tunnel Canal	Surface Creek	2,523	73	1,760	118	72	Leon Creek
		PAGE 2 SUBTOTALS:	319,137	971	384,924	1,038		
		PAGE 1 SUBTOTALS:	91,010	1,426	119,123	2,030		
		TOTAL DIV V EXPORTS:	410,147	2,397	504,047	3,068		

1988

RESERVOIR STORAGE SUMMARIES GREATER THAN 50 AF

WD	RESERVOIR NAME	STREAM SOURCE	PREVIOUS IYR				IYR OF RECORD				
			Beg. IYR		Beg.Irr.Season		Beg. IYR		Beg.Irr.Season		End IYR
			AF	%	AF	%	AF	%	AF	%	AF
36	Black Lake	Black Creek	1,997		1,997		1,997		1,997		1,997
	Buffehr Enlarged Res	Ten Mile Creek	103		103		103		103		103
	Cataract Lake	Cataract Creek	1,500		1,652		1,500		1,652		1,500
	Dillon Reservoir BRDP	Blue River	240,418		259,279		246,295		260,518		244,289
	Goose Pasture Tarn	Blue River	900		900		900		900		900
	Green Mountain Res	Blue River	140,274		145,911		105,557		149,491		86,899
	Hoagland Reservoir No 1	Elliott Creek	50		75		15		119		20
	Lost Lake	Brush Creek	125		125		125		125		125
	Lower Black Creek Res	Black Creek	NOT CONSTRUCTED								
	Reynolds Reservoir	Keystone Creek	157		157		157		157		157
	Upper Black Creek Res	Black Creek	200		522		400		522		400
	Upper Blue Lake Res	Blue River	0		2,119		0		2,119		0
		TOTALS:	385,724		412,840		357,049		417,703		336,390

1988

RESERVOIR STORAGE SUMMARIES GREATER THAN 50 AF

WD	RESERVOIR NAME	STREAM SOURCE	PREVIOUS IYR				IYR OF RECORD				
			Beg. IYR		Beg.Irr.Season		Beg. IYR		Beg.Irr.Season		End IYR
			AF	%	AF	%	AF	%	AF	%	AF
37	Benchmark Lake	Eagle River	168		168		168		168		168
	Black Lake	Gore Creek	45		45		45		45		45
	Black Lake No. 2	Gore Creek	90		90		90		90		90
	Chalk Mountain Res	Eagle River	204		204		204		204		204
	G G Reservoir	Eby Creek	0		0		0		0		0
	Homestake Reservoir	Homestake Creek	41,799		39,232		38,297		35,176		23,735
	L.E.D.E. Reservoir	Gypsum Creek	0		0		0		222		0
	Lower G G Reservoir	Eby Creek	0		0		0		0		0
	Noecker Reservoir	Eby Creek	0		280		0		280		0
	O.Z. Reservoir	Brush Creek	450		450		450		450		450
	Robinson Reservoir	Eagle River	3,136		3,136		3,136		3,136		3,136
	Welsh Reservoir	Alkali Creek	0		0		NIA		NIA		NIA
		TOTALS:	45,892		43,605		42,390		39,771		27,828

1988

RESERVOIR STORAGE SUMMARIES GREATER THAN 50 AF (1 of 2)

WD	RESERVOIR NAME	STREAM SOURCE	PREVIOUS IYR				IYR OF RECORD				
			Beg. IYR		Beg.Irr.Season		Beg. IYR		Beg.Irr.Season		End IYR
			AF	%	AF	%	AF	%	AF	%	AF
38	Alicia Lake Reservoir	Lime Creek	673		688		673		688		673
	Consolidated Ditch Res	West Coulter Crk	300		1,141		50		805		80
	Ivanhoe Reservoir	Fryingpan River	20		1,200		0		[illegible]		7
	Lake Ann Ditch Res	Sopris Creek	20		215		10		274		4.5
	McNulty Reservoir	Cattle Creek	0		50		0		0		0
	Ralston No 1 Reservoir	West Coulter Crk	0		0		0		0		0
	Ruedi Reservoir	Fryingpan River	97,580		101,398		90,874		97,881		83,816
	Spring Park Reservoir	Cattle Creek	508		4,350		0		2,067		30
	Thomas Res AKA Lewis	Thomas Creek	160		165		160		165		160
	Van Cleve-Fisher Res	Mesa Creek	0		553		0		300		0
	Von Springs Res #2	Coulter Creek	120		250		230		230		160
	Wildcat Reservoir	Snowmass Creek	1,140		1,185		1,100		1,150		1,125
	Woods Lake Reservoir	Lime Creek	294		309		300		310		300
		PAGE 1 SUBTOTALS:	100,815		111,504		93,397		104,497		86,356

1988 RESERVOIR STORAGE SUMMARIES GREATER THAN 50 AF (2 of 2)

WD	RESERVOIR NAME	STREAM SOURCE	PREVIOUS IYR				IYR OF RECORD				
			Beg. IYR		Beg.Irr.Season		Beg. IYR		Beg.Irr.Season		End IYR
			AF	%	AF	%	AF	%	AF	%	AF
38	Beaver Lake	Crystal Lake	73		76		73		76		73
	Crawford Dam No. 1	Blue Creek	160		163		160		163		160
	Crawford Dam No. 2	Blue Creek	56		57		56		57		56
	Himmeland Lake	Fryingpan River	NIA		NIA		92		95		92
	Jacobson Lakes & Ponds	Roaring Fork River	225		275		225		275		225
	Upper Chapman Res	Fryingpan River	2,448		2,525		2,450		2,525		2,450
		PAGE 2 SUBTOTALS:	2,962		3,096		3,056		3,191		3,056
		PAGE 1 SUBTOTALS:	100,815		111,504		93,397		104,497		86,356
		TOTALS:	103,777		114,600		96,453		107,688		89,412

1988 RESERVOIR STORAGE SUMMARIES GREATER THAN 50 AF

WD	RESERVOIR NAME	STREAM SOURCE	PREVIOUS IYR				IYR OF RECORD				
			Beg. IYR		Beg.Irr.Season		Beg. IYR		Beg.Irr.Season		End IYR
			AF	%	AF	%	AF	%	AF	%	AF
39	City of Rifle Pond No 1	Colorado River	56		56		56		56		56
	Grass Valley Reservoir	Rifle Creek	4,288		5,700		3,158		5,800		3,158
	Harris Reservoir	Rifle Creek	100		200		100		200		93
	Meadow Creek Reservoir	Elk Creek	984		984		984		984		984
	Middle Fork Reservoir	Parachute Creek	140		140		140		140		140
	Park Reservoir	Elk Creek	76		163		45.5		163		19
	Rifle Gap Reservoir	Rifle Creek	8,652		12,312		2,143		12,240		1,888
		TOTALS:	14,296		19,555		6,626.5		19,583		6,338

1988 RESERVOIR STORAGE SUMMARIES GREATER THAN 50 AF

WD	RESERVOIR NAME	STREAM SOURCE	PREVIOUS IYR				IYR OF RECORD				
			Beg. IYR		Beg.Irr.Season		Beg. IYR		Beg.Irr.Season		End IYR
			AF	%	AF	%	AF	%	AF	%	AF
45	Anderson Pond No. 1	Colorado River	312		312		312		312		312
	Centenial Lake	Colorado River	238		238		238		238		238
	Porter Reservoir	Alkali Crk (East)	5.5		206		6.9		206.7		5.8
	Vaughn Reservoir	Mamm Creek	0		64.3		0		0		0
		TOTALS:	555.5		820.3		556.9		756.7		555.8

1988

RESERVOIR STORAGE SUMMARIES GREATER THAN 50 AF

WD	RESERVOIR NAME	STREAM SOURCE	PREVIOUS IYR				IYR OF RECORD				
			Beg. IYR		Beg.Irr.Season		Beg. IYR		Beg.Irr.Season		End IYR
			AF	%	AF	%	AF	%	AF	%	AF
50	Albert Reservoir	Albert Creek	3		125		3		125		3
	Antelope Reservoir	Colorado River	150		330		150		350		0
	Basin Reservoir	Muddy Creek	0		115		21		118		0
	Binco Reservoir	Troublesome Creek	125		500		120		516		50
	Hinman Reservoir	Muddy Creek	175		500		230		611		300
	Lake Agnes	Muddy Creek	432		432		432		432		432
	Martin Reservoir	Muddy Creek	205		216		56		215		215
	Matheson Reservoir	Troublesome Creek	925		1,073		349		1,073		50
	McElroy Reservoir	Pass Creek	0		240		0		240		0
	McMahon Res No. 2	Red Dirt Creek	900		3,500		375		3,500		440
	Milk Creek Reservoir	Milk Creek	100		105		25		40		25
	North Meadows Res AKA Martin Lily Pond	Muddy Creek	NIA		50		0		204		0
	Parsons Reservoir	Muddy Creek	2		70		0		20		0
	Whiteley Peak Res	Muddy Creek	380		772		300		600		350
	Woods Reservoir	Muddy Creek	15		55		15		45		5
		TOTALS:	3,412		8,083		2,076		8,089		1,870

1988

RESERVOIR STORAGE SUMMARIES GREATER THAN 50 AF

WD	RESERVOIR NAME	STREAM SOURCE	PREVIOUS IYR				IYR OF RECORD				
			Beg. IYR		Beg.Irr.Season		Beg. IYR		Beg.Irr.Season		End IYR
			AF	%	AF	%	AF	%	AF	%	AF
51	Bull Run Reservoir	Williams Fork River	100		250		200		250		160
	Cottonwood Reservoir	Colorado River	40		35		10		35		10
	East Branch Reservoir	Ute Creek	125		2,000		1,250		2,000		700
	F W Linke No. 2 Res	Fraser River	0		40		5		60		0
	Hankinson Reservoir	Fraser River	116		116		116		116		116
	Jack Orr	Colorado River	245		245		20		20		20
	Kings Reservoir	Buffalo Creek	NIA		NIA		731		731		731
	Lake Granby	Colorado River	517,835		482,295		428,765		492,392		399,454
	Langholen Reservoir	Battle Creek	22		50		20		53		8.5
	Meadow Creek Reservoir	Fraser River	874		4,148		206		5,371		934
	Moore Reservoir	Williams Fork Rivr	80		220		75		200		70
	Musgrave Reservoir	Corral Creek	75		300		50		300		80
	Scholl Reservoir	Corral Creek	0		250		20		120		0
	Shadow Mountain Res	Colorado River	17,959		17,761		17,653		18,130		18,075
	Sun Valley Reservoir	North Fork of Colorado River	72.5		72.5		72.5		72.5		72.5
	Sylvan Reservoir	Little Muddy Crk	200		1,134		90		1,000		95
	Ute Creek Reservoir	Ute Creek	75		100		70		100		40
	Williams Fork Res	Williams Frk Rivr	85,015		79,526		79,176		95,818		68,573
	Willow Creek Res	Willow Creek	9,359		9,667		7,243		10,017		9,962
		TOTALS:	632,192.5		598,209.5		535,772.5		626,785.5		499,101

1988 RESERVOIR STORAGE SUMMARIES GREATER THAN 50 AF

WD	RESERVOIR NAME	STREAM SOURCE	PREVIOUS IYR				IYR OF RECORD				
			Beg. IYR		Beg.Irr.Season		Beg. IYR		Beg.Irr.Season		End IYR
			AF	%	AF	%	AF	%	AF	%	AF
52	Christensen Dam	Sheephorn Creek	88.5		88.5		69.2		69.2		69.2
	Jones Reservoir	Sheephorn Creek	69.0		69.2		69.2		69.2		69.2
	Rock Gap Dam	Unnamed Tributary to Colorado River	48.8		52.0		52.0		52.0		52.0
		TOTALS:	206.3		209.7		190.4		190.4		190.4

WD	RESERVOIR NAME	STREAM SOURCE	PREVIOUS IYR				IYR OF RECORD				
			Beg. IYR		Beg.Irr.Season		Beg. IYR		Beg.Irr.Season		End IYR
			AF	%	AF	%	AF	%	AF	%	AF
53	Clyde Reservoir	Egeria Creek	6		66.4		6.4		66.4		6.4
	Cresent Lake	Derby Creek	5		237		87.2		237.2		87.2
	Ed W. Harper	Egeria Creek	192		194		14.2		194.2		14.2
	Egeria Reservoir	Egeria Creek	57		107		7		107		7
	Grimes Brooks Reservoir	Red Ditch Creek	120		426		316		316		206
	Hadley Reservoir	Egeria Creek	151		164		164		164		164
	Heart Lake Reservoir	Deep Creek	341		3,255		3,255		3,255		3,255
	Hidden Springs Res	Horse Creek	52		NIA		NIA		NIA		NIA
	Jones No. 1 Reservoir	Sheep Creek 2	238		240		0		240		130
	Jones No. 2 Reservoir	Sheep Creek 2	247		333		0		83		3
	Kelly Reservoir	Egeria Creek	10		93		43		93		43
	Luark Reservoir	Spring Creek	10		90		0		90		0
	Morris Reservoir	Toponas Creek	25		324		0		294		0
	Newton Gulch Reservoir	King Creek	27		120		0		120		0
	Reid No. 3 Reservoir	King Creek	93		93		93		93		93
	Sterner Reservoir	Egeria Creek	18		100		0		100		30
	Sweetwater Reservoir	Sweetwater Creek	11,900		12,000		12,000		12,000		12,000
	Tonier Gulch Reservoir	Tonier Gulch	0		64.3		64		64		64
	Toponas Rock No. 2 Res	Toponas Creek	3		88		0		84		0
	Wohler Reservoir	Elk Creek	27.5		54		93		93		93
		TOTALS:	13,522.5		18,048.7		16,142.8		17,693.8		16,195.8

WD	RESERVOIR NAME	STREAM SOURCE	PREVIOUS IYR				IYR OF RECORD				
			Beg. IYR		Beg.Irr.Season		Beg. IYR		Beg.Irr.Season		End IYR
			AF	%	AF	%	AF	%	AF	%	AF
72	Big Beaver Reservoir	Bull Creek	0		108		0		80.8		0
	Bull Basin No. 1 Res	Bull Creek	0		69.7		0		69.7		0
	Bull Basin No. 2 Res	Bull Creek	23		0		0		62.4		0
	Bull Creek No. 2 Res	Bull Creek	69.8		69.8		69.8		69.8		0
	Bull Creek No. 3 Res	Bull Creek	0		0		0		0		0
	Bull Creek No. 4 Res	Bull Creek	0		226		0		226		0
	Bull Creek No. 5 Res	Bull Creek	214		315		68		236		106
	Fred Decamp Reservoir	Cottonwood Creek	38		38		38		38		38
	Hawxhurst Reservoir	Hawxhurst Creek	117		154		NIA		NIA		NIA
	Kitson Reservoir	Cottonwood Creek	0		0		0		132		132
	Lost Lake Reservoir	Bull Creek	0		0		0		0		0
	Monument No. 1 Res	Plateau Creek	66		572		NIA		NIA		NIA
	Monument No. 2 Res	Plateau Creek	0		1,020		NIA		NIA		NIA
	Parker Basin No. 1 Res	Cottonwood Creek	272		272		272		272		245
	Parker Basin No. 2 Res	Cottonwood Creek	0		60		0		60		0
	Parker Basin No. 3 Res	Cottonwood Creek	0		0		0		0		0
	Stubb McKinny Clark Res	Spring Creek	0		230		0		230.5		153.4
	Twin Basin Reservoir	Bull Creek	114		114		68		114		0
	Vega Reservoir	Plateau Creek	14,587		34,022		8,009		30,131		5,796
		SUBTOTALS:	15,500.8		37,270.5		8,524.8		31,722.2		6,470.4

WD	RESERVOIR NAME	STREAM SOURCE	PREVIOUS IYR				IYR OF RECORD				
			Beg. IYR		Beg.Irr.Season		Beg. IYR		Beg.Irr.Season		End IYR
			AF	%	AF	%	AF	%	AF	%	AF
72	Big Creek No. 1 Res	Big Creek	746		746		746		746		0
	Big Creek No. 3 Res	Big Creek	1,549		1,549		1,506		1,506		1,140
	Big Creek No. 4 Res	Big Creek	181		181		0		181		181
	Big Creek No. 5 Res	Big Creek	105		105		55		94		86
	Big Creek No. 7 Res	Big Creek	985		1,223		891		1,223		592
	Bull Creek No. 1 Res	Bull Creek	NIA		83		0		83		0
	Coon Creek No. 1 Res	Coon Creek	0		251		0		0		0
	Coon Creek No. 2 Res	Coon Creek	0		0		0		0		0
	Coon Creek No. 3 Res	Coon Creek	0		0		0		0		0
	Colby Horse Park Res	Leon Creek	183		469		130		490		162
	Cottonwood No. 1 Res	Cottonwood Creek	1,710		1,765		1,445		1,743		1,561
	Cottonwood No. 2 Res	Cottonwood Creek	137		220		0		220		0
	Cottonwood No. 4 Res	Cottonwood Creek	377		377		149		377		260
	Cottonwood No. 5 Res	Cottonwood Creek	342		342		342		342		215
	Dawson Reservoir	Big Creek	220		220		220		220		220
	Mesa Creek No. 1 Res	Mesa Creek	87.3		131		NIA		NIA		NIA
	Mesa Creek No. 3 Res	Mesa Creek	290		285		NIA		NIA		NIA
	Mesa Creek No. 4 Res	Mesa Creek	0		9.1		NIA		NIA		NIA
		SUBTOTALS:	6,912.3		7,956.1		5,484.0		7,225.0		4,417.0

WD	RESERVOIR NAME	STREAM SOURCE	PREVIOUS IYR				IYR OF RECORD				
			Beg. IYR		Beg.Irr.Season		Beg. IYR		Beg.Irr.Season		End IYR
			AF	%	AF	%	AF	%	AF	%	AF
72	Jerry Creek No. 1 Res	Plateau Creek	NIA		1,320		1,320		1,320		1,298
	Jerry Creek No. 2 Res	Plateau Creek	NIA		5,500		5,495		5,495		5,230
	Leon Lake Reservoir	Leon Creek	NIA		2,166		602		1,924		666
	Palisade Cabin Res	Rapid Creek	166		1,006		970		1,009		957
	Palisade Storage Res 1	Rapid Creek	0		109		109		109		87
	Palisade Storage Res 2	Rapid Creek	0		96		0		96		96
	YT Reservoir	Grove Creek	0		360		0		0		0
		PAGE 3 SUBTOTALS:	166		10,557		8,496		9,953		8,334
		PAGE 2 SUBTOTALS:	6,912.3		7,956.1		5,484		7,225		4,417
		PAGE 1 SUBTOTALS:	15,500.8		37,270.5		8,524.8		31,722.2		6,470.4
		TOTALS:	22,579		55,784		22,505		48,900		19,221

WD	RESERVOIR NAME	STREAM SOURCE	PREVIOUS IYR				IYR OF RECORD				
			Beg. IYR		Beg.Irr.Season		Beg. IYR		Beg.Irr.Season		End IYR
			AF	%	AF	%	AF	%	AF	%	AF
36			385,724		412,840		357,049		417,703		336,390
37			45,892		43,605		42,390		39,771		27,828
38			103,777		114,600		96,453		107,688		89,412
39			14,296		19,555		6,627		19,583		6,338
45			556		820		557		757		556
50			3,412		8,083		2,076		8,089		1,870
51			632,193		598,210		535,773		626,786		499,101
52			206		210		190		190		190
53			13,523		18,049		16,143		17,694		16,196
70			0		0		0		0		0
72			22,579		55,784		22,505		48,900		19,221

WATER DIVERSION SUMMARIES BY DISTRICT

WD	TOTAL DITCHES REPORTING				ESTIMATED NUMBER OF DITCH VISITATIONS	TOTAL DIVERSION -AF-	TOTAL DIVERSIONS TO STORAGE -AF-	IRRIGATION		
	ACTIVE		INACTIVE					TOTAL DIVERSIONS -AF-	NUMBER OF ACRES IRRIGATED	AVERAGE AT PER ACRE
	WA	NWA	NU	NR						
36	314	1	325	226	2,113	713,829	111,584	68,936	**15,118**	4.89
37	334	2	288	454	3,268	144,750	22,325	74,081	18,302	4.05
38	1240	16	858	804	3,354	674,564	91,545	287,034	56,726	5.06
39	447	4	282	197	1,001	172,547	13,810	146,751	22,380	6.56
45	472	48	367	105	2,910	119,687	229	99,101	28,039	3.53
50	230	1	91	12	835	87,942	7,591	80,240	20,973	3.83
51	614	10	513	333	6,983	872,485	244,961	147,693	29,822	4.95
52	156	0	94	38	456	42,638	97	42,095	8,974	4.69
53	459	2	187	75	1,327	890,524	2,339	92,871	31,980	2.90
70	147	17	101	6	1,245	50,170	0	48,853	6,824	7.12
72	420	2	419	649	7,283	1,611,455	35,950	745,550	128,984	5.78
								205		

WATER DIVERSION SUMMARIES BY DISTRICT (Continued)

WD	TRANS-MOUNTAIN OUTFLOW AF	TRANS-BASIN OUTFLOW AF	STOCK AF	MUNICIPAL AF	DOMESTIC AF	INDUSTRIAL AF	RECREATIONAL AF	FISHERY AF	COMMERCIAL AF	OTHER AF
36	66,017	0	0	3,382	89	459,540	0	0	0	4,281
37	38,251	0	0	7,323	185	59	581	0	6	1,939
38	51,217	629	4	7,853	696	220,610	11,912	2,173	37	854
39	0	967	1,052	2,779	3,918	216	0	2,752	3	299
45	0	0	17,297	1,259	161	73	1,361	1	0	205
50	0	0	30	0	25	0	0	4	0	52
51	370,481	5,129	1,767	2,554	277	95,902	0	551	185	2,985
52	0	0	165	0	167	4	0	0	1	109
53	0	0	266	4,002	107	788,911	313	1,369	0	346
70	0	0	1,279	38	0	0	0	0	0	0
72	1,760	1,655	6,669	26,416	442	792,052	0	246	0	715
	517726		28529	55606	6067	2357367	14167	7045	252	11772

D. WATER COURT ACTIVITIES CALENDAR YEAR 1988 (1/1/88 thru 12/31/88))

NUMBER OF WATER RIGHTS APPLICATIONS = 88CW001 thru 88CW483
435 = Division 5 48 = Division 6

NUMBER OF DIVISION 5 WATER RIGHTS APPLIED FOR = 1015

Alternate Point or Change of Water Right = 79
Plans for Augmentation = 22
Water Rights Within Augmentation Plans = 182
Conditional = 2
Conditional to Absolute = 93
Due Diligence = 372
Exchange = 43
Storage Rights = 55
Surface Water Rights = 144
Water Rights (Unspecific) = 16
Other = 7

STRUCTURES IN APPLICATIONS = 1092

Canals and Tunnels = 14
Ditches = 114
Lakes and Reservoirs = 130
Ponds and Springs = 236
Power Plants = 3
Pumping Stations = 16
Pumps and Pipelines = 119
Wells = 366
Other = 94

WATER COURT DECREES FOR DIVISION 5 = 491

E. OFFICE ADMINISTRATION FISCAL YEAR 1988 (7/1/87 thru 6/30/88)

NAME	POSITION	MONTHS BUDGETED	MONTHS WORKED	MILEAGE
Bell, Orlyn J.	Division Engineer	12	12	19,770 S
Martellaro, Alan C.	Asst Division Engineer	12	12	7,616 S
			841 P →	
McCabe, Robert D. (McCabe transferred here 8/87)	Sr Water Resource Engineer	10	10	903 P
Schieldt, Wayne I. (Schieldt transferred here 3/88)	Sr Wtr Res Engr (Hydro)	4	4	3,660 S
Hitchcock, Nancy C.	Sr Secretary	12	12	

FULL-TIME EMPLOYEES IN THE FIELD

NAME	POSITION	MONTHS DISTRICT	MONTHS BUDGETED	WORKED	MILEAGE
Cerise, Alvin L.	Wtr Comm C	Wells *	12	12	16,574 S
				550 P →	
Wells, L. Wayne	Sr Wtr Comm	36, 37	12	12	9,447 S
Thompson, Wm. H.	Wtr Comm C	50	12	12	11,779 P
Shelden, Jim E.	Wtr Comm C	52, 53	12	12	12,278 P
Klocker, Marcus A.	Prin Wtr Comm	72	12	12	8,335 S

PERMANENT PART-TIME EMPLOYEES IN THE FIELD

Nichols, Becky	Wtr Comm B	38	11.0	12.0	10,849 P
Whitehead, Dwight	Wtr Comm A	38 **	10.0	8.75	1,777 P
Lemon, James	Wtr Comm B	39	9.0	9.5	6,770 P
Klenda, Robert	Wtr Comm C	45	12.0	12.0	12,109 P
Nelson, Glen	Wtr Comm B	45	3.0	3.0	1,526 P
Daxton, James	Wtr Comm B	51	9.4	9.1	14,353 P
Anderson, George	Wtr Comm B	70	6.0	7.0	7,957 P
Bieser, Robert	Wtr Comm B	72	5.75	5.0	2,789 P
Reed, Miles ***	Wtr Comm B	72	5.75	5.5	3,088 P
Carlson, Robert****	Wtr Comm A	72	2.5	2.3	1,794 P
Cox, Tom	Wtr Comm B	72	7.5	7.0	3,516 P
Hill, Clifford	Wtr Comm B	72	7.0	6.5	4,987 P
Hittle, Ray	Wtr Comm B	72	5.0	5.5	4,429 P
		TOTALS:	93.9	93.15	65,402 S
					102,295 P
		GRAND TOTAL:	153.9	153.15	167,697

* Cerise 6/88 began working Dists 38, 39, 45
** Whitehead hired 10/87; 6/88 began working Wells
*** Reed retired 6/88
**** Carlson hired 4/88

F. COLORADO RIVER CALLS FOR 1988

DATE OF CALL	CALLING STRUCTURE	ADMIN NO OF CALL	AMOUNT OF CALL
11/1/87	Shoshone Power Plant	20427.18999	1250 cfs
1/4/88	Shoshone Power Plant Call For 1250 cfs reduced to 700 cfs (one turbine down)		
3/21	Shoshone Power Plant	20427.18999	1250 cfs
4/4	Shoshone Power Plant Call For 1250 cfs Off		
4/4	Shoshone Power Plant	33023.28989	158 cfs
4/5	Shoshone Power Plant Call For 158 cfs Off		
7/19	Grand Valley Water Users Assn	30895.21241	400 cfs
8/16	Grand Valley Water Users Assn	22729.21241	730 cfs
8/30	Shoshone Power Plant	20427.18999	1250 cfs
9/13	Grand Valley Water Users Assn Call For 730 cfs Off		
10/21	Grand Valley Water Users Assn Call For 400 cfs Off		
12/31	Shoshone Power Plant Call For 1250 cfs Still On		

1988

RESERVOIR STORAGE SUMMARIES LESS THAN 50 AF

WD	RESERVOIR NAME	STREAM SOURCE	PREVIOUS IYR				IYR OF RECORD				
			Beg. IYR		Beg.Irr.Season		Beg. IYR		Beg.Irr.Season		End IYR
			AF	%	AF	%	AF	%	AF	%	AF
36	Bumgarner Reservoir	Beaver Creek	0		22		1		22		0
	Griggs Reservoir	Beaver Creek	20		41		40		41		20
	Griggs Reservoir No 3	Beaver Creek	0		34		0		34		0
	Jones Reservoir	Sawmill Creek	0		14		0		14		0
	Way Reservoir	Springs Creek	4		40		4		40		3
		TOTALS:	24		151		45		151		23

WD	RESERVOIR NAME	STREAM SOURCE	PREVIOUS IYR				IYR OF RECORD				
			Beg. IYR		Beg.Irr.Season		Beg. IYR		Beg.Irr.Season		End IYR
			AF	%	AF	%	AF	%	AF	%	AF
37	Nottingham Reservoir	Nottingham Creek	0		0		0		0		0
		TOTALS:	0		0		0		0		0

WD	RESERVOIR NAME	STREAM SOURCE	PREVIOUS IYR				IYR OF RECORD				
			Beg. IYR		Beg.Irr.Season		Beg. IYR		Beg.Irr.Season		End IYR
			AF	%	AF	%	AF	%	AF	%	AF
38	Buck Point Ranch Res 1	Mesa Creek	NIA		NIA		20.5		20.5		20
	Deane Pond No. 1	Roaring Fork River	NIA		NIA		5		5		5
	Deane Pond No. 2	Roaring Fork River	NIA		NIA		20		22		20
	Hendricks Fish Pond	Fryingpan River	NIA		NIA		2		2.3		2
	Highland Pond No. 1	Maroon Creek	NIA		NIA		2		2.3		2
	Highland Pond No. 3	Maroon Creek	NIA		NIA		9		9.5		9
	Hignett Pond	Blue Creek	NIA		NIA		5		5.1		5
	Hutchins Bros Res 1	Sopris Creek	NIA		NIA		40		41.5		40
	Hutchins Bros Res 2	Sopris Creek	NIA		NIA		7		7.3		7
	Kopp Pond	Roaring Fork River	NIA		NIA		4		4.1		4
	Magnifico Ponds	Waste and Seeps	NIA		NIA		5.3		5.5		5.3
	Martin Reservoir Alt 1	Four Mile Creek	NIA		NIA		4		5		0
	McVey Reservoir	Cattle Creek	NIA		NIA		3		3.2		3
	R E H Reservoir	Crystal River	NIA		NIA		13.6		14		13.6
	Stainton Pond No. 1	Four Mile Creek	NIA		NIA		1		1.1		1
	Stainton Pond No. 2	Four Mile Creek	NIA		NIA		1		1.1		1
	Stainton Pond No. 3	Four Mile Creek	NIA		NIA		8		8		4.5
	Stainton Pond No. 4	Four Mile Creek	NIA		NIA		4		5		1.8
	Tagert Lake	Roaring Fork River	30		31		30		31		30
	Wexner Pond	Roaring Fork River	NIA		NIA		8.5		8.8		8.5
		SUBTOTALS:	30		31		192.9		202.3		182.7

WD	RESERVOIR NAME	STREAM SOURCE	PREVIOUS IYR				IYR OF RECORD				
			Beg. IYR		Beg.Irr.Season		Beg. IYR		Beg.Irr.Season		End IYR
			AF	%	AF	%	AF	%	AF	%	AF
38	Buck Point Ranch Res 2	Mesa Creek	NIA		NIA		15		15.5		15
	C and M Pond	Four Mile Creek	NIA		NIA		.25		.35		.25
	Carroll Pond	Four Mile Creek	NIA		NIA		.31		.41		.31
	Christine Lake	Roaring Fork River	40		44		17		17.5		17
	Crawford Dam No. 3	Blue Creek	25		26		25		26		25
	Crooked Creek Reservoir	Fryingpan River	40		43		40		43		40
	Elk Creek Res No. 2	Elk Creek	10		12		10		10.5		10
	Hawk Gulch Reservoir	Edgerton Creek	12		13		12		13		12
	Hell Roaring Res No. 1	Crystal River	6		6.5		2		2.3		2
	James Reservoir	Roaring Fork River	0		10.3		8.3		8.6		8.3
	St. John Reservoir	Thomas Creek	4		5		0		5		4.5
	Von Springs Res No. 1	Coulter Creek	44		45		0		25		0
	Waters Reservoir	Coulter Creek	17		18		17.5		18		17.5
		SUBTOTALS:	198		222.8		147.36		185.2		151.86

WD	RESERVOIR NAME	STREAM SOURCE	PREVIOUS IYR				IYR OF RECORD				
			Beg. IYR		Beg.Irr.Season		Beg. IYR		Beg.Irr.Season		End IYR
			AF	%	AF	%	AF	%	AF	%	AF
38	AMV Reservoir No. 1	Blue Creek	NIA		NIA		5		5.1		5
	AMV Reservoir No. 2	Blue Creek	NIA		NIA		5		5.1		5
	AMV Reservoir No. 3	Blue Creek	NIA		NIA		5		5.1		5
	East Creek Res and PL	Crystal River	NIA		NIA		6		6.2		6
		PAGE 3 SUBTOTALS:	0		0		21		21.5		21
		PAGE 2 SUBTOTALS:	198		222.8		147.36		185.2		151.86
		PAGE 1 SUBTOTALS:	30		31		192.9		202.3		182.7
		TOTALS:	228		254		361		409		356

1988 RESERVOIR STORAGE SUMMARIES LESS THAN 50 AF

WD	RESERVOIR NAME	STREAM SOURCE	PREVIOUS IYR				IYR OF RECORD				
			Beg. IYR		Beg.Irr.Season		Beg. IYR		Beg.Irr.Season		End IYR
			AF	%	AF	%	AF	%	AF	%	AF
39	Brungs Pond	East Elk Creek	5		5		5		5		5
	Cherry Creek Pond No. 1	West Elk Creek	1		1		1		1		1
	Cherry Creek Pond No. 2	West Elk Creek	1		1		1		1		1
	Cherry Creek Pond No. 3	West Elk Creek	1		1		1		1		1
	Cherry Creek Pond No. 4	West Elk Creek	1		1		1		1		1
	Cherry Creek Pond No. 5	West Elk Creek	1		1		1		1		1
	Clough Stock Water Res	Colorado River	1		1		1		1		1
	Cozza Reservoir	Cozza Gulch	NIA		NIA		0		3.5		0
	Emmer Reservoir	Rifle Creek	7.9		7.9		7.9		7.9		7.9
	Lisa Pond	Colorado River	8		8		8		8		8
	Raymond Pond	West Rifle Creek	3		3		3		3		3
	Sample Reservoir No 1	East Elk Creek	2		2		2		2		2
	Sample Reservoir No 2	East Elk Creek	5		5		5		5		5
		TOTALS:	36.9		36.9		36.9		40.4		36.9

1988 RESERVOIR STORAGE SUMMARIES LESS THAN 50 AF

WD	RESERVOIR NAME	STREAM SOURCE	PREVIOUS IYR				IYR OF RECORD				
			Beg. IYR		Beg.Irr.Season		Beg. IYR		Beg.Irr.Season		End IYR
			AF	%	AF	%	AF	%	AF	%	AF
45	Conger Reservoir	Cottonwood Creek	6.5		19.1		0		0		0
	Frei Reservoir	Divide Creek	22.7		26.6		24.1		36.1		26.6
	Island Ranch Lake No 1	Colorado River	3.7		5		3.7		5		3.7
	Island Ranch Lake No 2	Colorado River	18		24		18		24		18
	Island Ranch Lake No 3	Colorado River	16		20		16		20		16
	Jonathan Gant Res	West Mamm Creek	NIA		NIA		0		13.6		0
	KLC Reservoir No 1	Alkali Creek	2.4		2.4		2.4		2.4		2.4
	Miklish Reservoir	South Canon Creek	2.5		2.5		2.5		2.5		2.5
	Susan Stock Water Ponds	Elk Horn Gulch	4		4		4		4		4
	Weller Lake	Colorado River	6		6		6		6		6
		TOTALS:	81.8		109.6		76.7		113.6		79.2

1988 RESERVOIR STORAGE SUMMARIES LESS THAN 50 AF

WD	RESERVOIR NAME	STREAM SOURCE	PREVIOUS IYR				IYR OF RECORD				
			Beg. IYR		Beg.Irr.Season		Beg. IYR		Beg.Irr.Season		End IYR
			AF	%	AF	%	AF	%	AF	%	AF
50	Colburn Reservoir	Muddy Creek	4		16		1		16		1
	Colburn Reservoir No 2	Muddy Creek	4		23		5		23		0.5
	Confluence Reservoir	Antelope Creek	5		7		7		7		7
	Heini Reservoir	Pinto Creek	40		47		47		47		48
	Heini-Kramer Reservoir	Pinto Creek	0		19		2		19		0
	Lewis Reservoir	Pinto Creek	2		49		1		40		0
	Oaks Reservoir	Muddy Creek	NIA		NIA		2		50		15
	Saraceno Reservoir	Pass Creek	NIA		NIA		7		11		6
	Slide Reservoir	Troublesome Creek	8		18		5		18		4
	Wheatley Divr Pond No 1	Lawrence Creek	2		5		NIA		NIA		NIA
		TOTALS:	65		184		72.5		231		81.5

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RESERVOIR STORAGE SUMMARIES LESS THAN 50 AF

WD	RESERVOIR NAME	STREAM SOURCE	PREVIOUS IYR				IYR OF RECORD				
			Beg. IYR		Beg.Irr.Season		Beg. IYR		Beg.Irr.Season		End IYR
			AF	%	AF	%	AF	%	AF	%	AF
51	Cole Reservoir	Battle Creek	0		10		0		43		1
	Dale Reservoir	Battle Creek	5		30		9		25		4
	Doe Creek Reservoir	Doe Creek	NIA		NIA		0		3.7		0
	F W Linke No 3 Res	Ten Mile Creek	0		26		5		26		0
	F W Linke Reservoir	Ten Mile Creek	7		13		5		4		0
	Gregerson Reservoir	Copper Crk (Kinney)	7		30		8		30		8
	Huntington Reservoir	Sheriff Creek	NIA		NIA		0		0		0
	Linke Reservoir	Ten Mile Creek	10		40		2		40		0
	Little Ho Reservoir	Walden Hollow	NIA		NIA		20		20		20
	Marte-Linke Reservoir	Nine Mile Creek	0		36		20		20		20
	McCandliss Reservoir	Skylark Creek	0		23.4		0		23.5		0
	Robinson Swan Pond No 1	Williams Fork River	NIA		NIA		1		3		1
	Skylark Reservoir	Skylark Creek	0		12		0		12		0
		TOTALS:	29		220.4		70		250.2		54

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RESERVOIR STORAGE SUMMARIES LESS THAN 50 AF

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			Beg. IYR		Beg.Irr.Season		Beg. IYR		Beg.Irr.Season		End IYR
			AF	%	AF	%	AF	%	AF	%	AF
52	Box Canyon Reservoir	Piney River	29		29		29		29		29
	Castle Reservoir	Piney River	0		31		0		30		0
	Forster Reservoir	Sheephorn Creek	30		30		NIA		NIA		NIA
	Gore Canyon Ranch Lake 1	Colorado River	.75		.75		.75		.75		.75
	Gore Canyon Ranch Lake 2	Colorado River	.75		.75		.75		.75		.75
	Gore Canyon Ranch Lake 3	Colorado River	2.5		2.5		2.5		2.5		2.5
	Gore Canyon Ranch Lake 4	Colorado River	.8		.8		.8		.8		.8
	Hurt Reservoir	Alkali Creek	NIA		NIA		0		50		0
	Olsen Reservoir No 1	Piney River	37		37		37		37		37
	Olsen Reservoir No 1.5	Piney River	3		3		3		3		3
	Olsen Reservoir No 2	Piney River	2.5		2.5		2.5		2.5		2.5
	Olsen Reservoir No 3	Piney River	2.3		2.3		2.3		2.3		2.3
	Olsen Reservoir No 4	Piney River	5		5		5		5		5
	Olsen Reservoir No 5	Piney River	3.1		3.1		3.1		3.1		3.1
	Piney Peak Pond No 1	Sheephorn Creek	10		10		10		10		10
	Piney Peak Pond No 2	Sheephorn Creek	1.6		1.6		1.6		1.6		1.6
	Piney Peak Pond No 3	Sheephorn Creek	1.16		1.16		1.16		1.16		1.16
	Piney Peak Pond No 4	Sheephorn Creek	1.0		1.0		1.0		1.0		1.0
	Piney Peak Pond No 5	Sheephorn Creek	1.2		1.2		1.2		1.2		1.2
		TOTALS:	131.7		131.7		101.7		181.7		101.7

1988 RESERVOIR STORAGE SUMMARIES LESS THAN 50 AF

WD	RESERVOIR NAME	STREAM SOURCE	PREVIOUS IYR				IYR OF RECORD				
			Beg. IYR		Beg.Irr.Season		Beg. IYR		Beg.Irr.Season		End IYR
			AF	%	AF	%	AF	%	AF	%	AF
53	A J Reservoir	King Creek	38		38		38		38		0
	Calvick Reservoir	Sweetwater Creek	22		22		24		24		24
	E M Curry Reservoir	Skinner Creek	26		26		0		26		0
	Fairview Reservoir	Rock Creek	12		12		12		12		12
	Hadley No 2 Reservoir	Egeria Creek	14		14		24		24		24
	J F Reimer Reservoir	Toponas Creek	NIA		NIA		NIA		NIA		NIA
	Jones No 3 Reservoir	Sheep Creek 2	42.5		42.5		42.5		42.5		42.5
	King Mountain Reservoir	Egeria Creek	25		25		25		25		25
	Maloney Reservoir	Horse Creek	13		13		13		13		13
	Noble Reservoir	Sutton Creek	0		32		0		32		0
	P J Martin Reservoir	Sheep Creek 2	15		15		15		15		15
	Roberta Reservoir	Egeria Creek	50		50		49.6		49.6		49.6
	Sawmill Reservoir	Horse Creek	10		10		10		10		10
	Stout Reservoir	Sweetwater Creek	8		8		8		8		8
	Tepe Reservoir	Tepe Creek	8		8		0		10		0
	Yarmony Reservoir	Yarmony Creek	27		27		0		44		0
		TOTALS:	310.5		342.5		261.1		373.1		223.1

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WD	RESERVOIR NAME	STREAM SOURCE	PREVIOUS IYR				IYR OF RECORD				
			Beg. IYR		Beg.Irr.Season		Beg. IYR		Beg.Irr.Season		End IYR
			AF	%	AF	%	AF	%	AF	%	AF
70	Trough Springs Reservr	Dry Fork	0		37		0		0		0
		TOTALS:	0		37		0		0		0

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WD	RESERVOIR NAME	STREAM SOURCE	PREVIOUS IYR				IYR OF RECORD				
			Beg. IYR		Beg.Irr.Season		Beg. IYR		Beg.Irr.Season		End IYR
			AF	%	AF	%	AF	%	AF	%	AF
36			24		151		45		151		23
37			0		0		0		0		0
38			228		254		361		409		356
39			37		37		37		40		37
45			82		110		77		114		79
50			65		184		73		231		82
51			29		220		70		250		54
52			132		132		102		182		102
53			311		343		261		373		223
70			0		37		0		0		0
72											