

ANNUAL REPORT  
WATER DIVISION 5

TABLE OF CONTENTS

	<u>PAGE</u>
I. WATER ADMINISTRATION	
A. 1989 Water Year.....	1
1. Accomplishments.....	1
2. Involvement in the Water User Community.....	4
3. Issues Impacting Division 5.....	5
4. Issues of Concern.....	7
5. Effect of Workload Changes.....	8
6. Impact of the Budgets on Operations.....	8
B. 1990 Water Year.....	9
1. Operational Concerns.....	9
2. Projected Work Items for 1990.....	9
3. Goals and Objectives.....	11
II. STATISTICAL INFORMATION	
A. Transmountain Diversion Summaries .....	13-15
B. Reservoir Storage Summaries.....	16-44
C. Water Diversion Summaries By District.....	45-46
D. Water Court Activities.....	47
E. Office Administration.....	47-48
F. Colorado River Calls For 1989.....	49
APPENDIX A: Division 5 Staff Meeting Agenda for Annual Report Preparation	
APPENDIX B: One Water Commissioner's Submittal for Staff Meeting	
APPENDIX C: Dam Safety Inspector's Winter Work Memorandum	
APPENDIX D: Annual Water Diversion Statistical Summary Reports	

ANNUAL REPORT  
WATER DIVISION 5

I. WATER ADMINISTRATION

A. 1989 Water Year

This was the year that Division 5 experienced some of the good, the bad, and the ugly. 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 1989 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 closer we are to the good.

Budget is the bad word for 1989 with the Division overspending by nearly \$4000. We are faced with the continuing task of trying to do more with less and although this is challenging, it also proves difficult.

The 1989 water commissioner situation has been ugly as only 7 of the 17 commissioners remain in the same position they occupied at the start of the year. Retirement, heart attacks, death and transfers have plagued the staff. This has had a huge impact on training demands and water administration in an already 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 1988 diversion records and are closing in on those for 1989.\*

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\* The untimely death of the water commissioner in Districts 52 and 53 along with the transfer out of the Division of the water commissioner in District 38, the transfer out of the Division of a water commissioner in District 72 combined with the replacement contracting cancer and not working, one other retiring early season after a heart attack with the replacements taking several months to hire, and the lead water commissioner spending over a month with a heart condition -- all left some holes that could not be filled.

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 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 upgrade of Water District 36 was completed this year and added to the Tabulation, which was nearly a year's work in itself by one engineer. The annual upgrade of the previous years' signed decrees were also added as were about half of the outstanding augmentation plans. All the protests to the 1988 official printing of the tabulation were reviewed and additions or corrections made as needed.

The 1984 abandonment list was recently signed by the Chief Water Judge and in less than a year abandonments were again a big time-consumer with the commissioners fine-tuning the currently-in-use codes (CIU) in the structure lists and the non-use-codes (NUC) from the diversion records. Initial abandonment lists have been prepared and are in the process of being field inspected before finalization.

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

Of the 327 new water court applications filed with Water Division No. 5, 287 were processed this year for Division 5 with the appropriate field inspections, consultations, objections, and other assorted work accomplished. This corresponds to 1986 wherein 328 were processed, 1987 for 398, and 1988 for 483.

Hydrographic work on the Fryingpan-Arkansas Project was completed as required. Additional measurements for administrative purposes were made and were extremely helpful in areas that do not ordinarily have calls.

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 administrative levels have increased as well. There is definite positive public relations through it all.

Eighty-four (84) regular S.E.E.D. (Safety Evaluations of Existing Dams) inspections and 18 follow-up inspections were done by the Dam Safety Engineer and 23 of the 44 required of the Water Commissioners.\* (See Footnote Page 1) Thirty (30) restricted reservoirs were monitored by the water commissioners; new restrictions were placed on 3 reservoirs; and restrictions were removed from 6 reservoirs.

Well inspections were made as absolutely necessary but generally lagged as the inspector's primary duties were directed toward filling in on necessary administration.\* (See Footnote Page 1)

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 second year the records reflect replacements from Green Mountain Reservoir and the exchanges involved.

As footnoted on Page 1, Division 5 had some drastic personnel changes take place. Two top part-time water commissioners transferred early in the season into other divisions for full-time positions. The replacement for one worked one day then tested positive for cancer and terminated employment. A second replacement was subsequently hired. Another water commissioner retired during the winter and was replaced. A fifth water commissioner died early in the season and was replaced by a transferee from Division 6. A sixth water commissioner suffered a mild heart attack mid-season and subsequently retired. That position has not yet been filled. A seventh (the principal water commissioner in District 72) also suffered a mild heart problem and was out of action for over a month. During the same time the Division 4 and 5 combined Grand Junction field office was opened and, needless to say, not very well manned by personnel from Division 5.

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 expertises. Additionally many Division 5 personnel attended the CSU symposium, the training sessions in Montrose, various Fred Prior type classes, a number of state-offered Moving Ahead Seminars, and two attended the state-offered Supervisory Certificate Program. In addition, each employee was given a performance evaluation and has a new plan in place.

In the area of resource management 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. The Grand Junction office as mentioned above is also new. The open house for it was held December 15 and was well attended by water users, local officials, agency representatives, and area members of the legislature.

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; 138 orders were subsequently sent out. In conjunction with the Dam Inspector, 10 new reservoir staff gages were installed with corresponding capacity tables supplied.

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.

We also received a second 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.

## 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: Cache Creek water users, Bull Creek water users, Mesa Planning Association, Big Creek water users, Mesa County Commissioners and Planning Commission and staff, Pitkin County and Aspen planners and attorneys, Eagle County Soil Conservation Service, Town of Gypsum officials and other water users, Summit County Small Reservoir Study Group, realtor groups, Well Drillers Association, several Sierra Clubs, 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, and the Governor's "Dome on the Range."

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, and the Blue River Decrees and 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.

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.

- (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.

"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 Reservoir.

- (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 their 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.

Second, the very real event of "PUBLIC INTEREST VALUES" including basin of origin considerations, public right to use water, and finally water quality considerations is on the threshold of emerging as a real force in water allocation.

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) and (3) below]
  - Number and complexity of augmentation plans are prohibitive to administer with existing staff and methods.
  - Much work is still needed on the tabulation. We need to include and/or revise augmentation plans.
  - Twenty percent of the structures have no record at all.
  - Many diversion records are estimated rather than observed.
  - Staff gages and capacity tables are still needed for many reservoirs.
  - Many structures have no control and/or measuring devices.
  - Drought shortages seem imminent at this time.
  - Retirements, etc., have created a very new workforce which will take considerable time and resources to develop.
  - Budget constraints are deepening.
  - 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.
- (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 biggest impacts were due to the much tougher than normal drought administration complicated by a one-third turnover or vacancy in water commissioners. Only 7 of 17 water commissioners completed the season where they started without disruption for change of duties, location, or serious illness.

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.

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 17 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 for part-timers to seek full-time employment is a problem. 71% 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. Expenditures for the phone expansion helped break the budget.

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

In travel we spent what was needed to do the job but that turned out to be excessive.

The bottom line is that we spent what was needed and consequently overspent by about \$4000.

B. 1990 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 workforce 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 and time allocations given the drought situation and training needs of the new employees will be critical.

Field inspections regarding abandonments will also be very 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, governor, and 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.

2. Projected Work Items for 1990:

Other than 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 1990 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.
  
- B. Inventory all fee wells and generate records. (Proposal to spend SB 200 funds to accomplish)
  - 1. Determine usage.
  - 2. Determine location.
  - 3. Determine compliance with permit and decree.
  - 4. Prepare ownership directory.
  - 5. Send orders.
  
- 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 decrees to Tabulation.
  
- F. Add 1989 decrees to Structure Lists.
  
- G. Do computer accounting spreadsheets for:
  - 1. Blue River Diversion Project - Williams Fork - Moffat System,
  - 2. Continental-Hoosier System,
  - 3. McMahan/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. Install reservoir staff gages and get capacity tables to match for 50% of each district's reservoirs.
- J. Pursue getting restricted dams repaired and off the restriction list.
- K. Develop an updated capacity table book for reservoirs in which capacity tables have been developed.
- L. Finish spillway hydrology studies for Class I dams and most of the Class II dams, time permitting.
- M. Write Individual Performance Objectives (IPO's) for Water Commissioners on diversion data and annual record submittals.
- N. Organize and implement program for hydrographic data collection for Division 5, including appropriation of money from legislature for same.
- O. 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.
- P. 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.
- Q. Design system to notice public of calls.
- R. Design system to solicit user-supplied information.
- S. Complete backlog of hydrographic records.
- T. 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.
  - 2. Uphold all other statutory duties of the State Engineer's office.

B. Water Records and Information

1. Provide the public with service regarding our administration.
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. 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.



WD	NAME	STREAM	RECIPIENT				SOURCE	
			1988		1989		WD	STREAM
			PREVIOUS YR	AF	PREVIOUS YR	AF		
			DAYS	DAYS	DAYS	DAYS		
7	Straight Creek Tunnel	Clear Creek	1,2188	365	820	365	36	Straight Creek
7	Vidler Tunnel	Clear Creek	743	127	966	120	36	Snake River
23	Boreas Pass Ditch	Tarryall Creek	58	NIA	0	0	36	Blue River
23	Hoosier Tunnel	Main Fork of South Platte River	9,838	160	10,720	130	36	Blue River
80	Roberts Tunnel	Main Fork of South Platte River	19,480	365	74,410	265	36	Blue River
11	Columbine Ditch	Tennessee Creek	1,050	87	1,420	114	37	South Fork of Eagle River
11	Ewing Ditch	Tennessee Creek	1,110	105	786	152	37	South Fork of Eagle River
11	Homestake Tunnel	South Platte via Arkansas River	33,730	172	22,760	199	37	Homestake Creek
11	Wurtz Ditch	Tennessee Creek	881	57	2,070	127	37	South Fork of Eagle River
11	Boustead Tunnel	Lake Fork Creek	14,280	43	37,140	94	38	Fryingpan River
11	Busk-Ivanhoe Tunnel	Lake Fork Creek	4,300	184	3,750	192	38	Fryingpan River
11	Twin Lakes Tunnel	Lake Fork Creek	32,434	365	37,390	365	38	Roaring Fork River
PAGE 1 SUBTOTALS:			119,123	2,030	192,232	2,123		

WD	NAME	STREAM	RECIPIENT				SOURCE			
			PREVIOUS YR	AF	YR OF RECORD	AF	WD	STREAM		
			1988	DAYS	1989	DAYS				
3	Grande River Ditch	Cache La Poudre River	19,890	130	18,680	162	51	North Fork of Colorado River		
3	Eureka Ditch	Cache La Poudre River	40(est)	NIA	40(est)	NIA	51	North Fork of Colorado River		
4	Alva B. Adams Tunnel	Big Thompson River	283,980	365	275,100	365	51	North Fork of Colorado River		
6	Moffat Tunnel	Boulder Creek	78,570	365	64,890	365	51	Fraser River		
7	Berthoud Pass Ditch	Clear Creek	684	60	0	0	51	Fraser River		
6	August P. Gumlick Tunnel	Boulder Creek via Fraser River	INCLUSIVE IN	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	1,760	118	1,577	80	72	Leon Creek		
PAGE 2 SUBTOTALS:			384,924	1,038	360,287	972				
PAGE 1 SUBTOTALS:			119,123	2,030	192,232	2,123				
TOTAL DIV 5 EXPORTS:			504,047	3,068	552,519	3,095				







WD	RESERVOIR NAME	STREAM SOURCE	1988 PREVIOUS YR						1989 YR OF RECORD					
			Beg. YR		Beg. Irr. Season		Beg. YR		Beg. Irr. Season		End 1			
			AF	Z	AF	Z	AF	Z	AF	Z	AF	Z		
38	Alicia Lake Res	Lime Creek	673		673		673		673		673		67	
	Beaver Lake	Crystal Lake	73		73		73		73		73		7	
	Consolidated Res	West Coulter Creek	50		805		80		802				1	
	Crawford Dam No. 1	Blue Creek	160		160		160		160		160		16	
	Crawford Dam No. 2	Blue Creek	56		56		56		56		56		5	
	Crooked Creek Res	Lime Creek	NIA		NIA		NIA		NIA		NIA		NI	
	Himmeland Lake	Roaring Fork River	92		92		92		92		92		9	
	Hopkins Res	Landis Creek	NIA		NIA		NIA		NIA		NIA		NI	
	Ivanhoe Res	Fryingpan River	0		627		7		409					
	Jacobson Lakes & Ponds	Roaring Fork River	225		225		225		225		225		22	
	Lake Ann Ditch Res	Sopris Creek	10		274		4.5		325				20	
	McNulty Res	Slipper Run Creek	0		0		0		0		0			
	Polaris Res	Coulter Creek	NIA		NIA.		NIA		NIA		NIA		NI	
	Ralston No. 1 Res	West Coulter Creek	0		0		0		0		0			
	Ruedi Res	Fryingpan River	90,874		97,881		83,816		97,262				84,405	
	Spring Park Res	Blue Creek	0		2067		30		1412				4	
	Tagert Lake	Roaring Fork River	NIA		NIA		NIA		NIA		NIA		NI	
	Thomas Res	Thomas Creek	160		160		160		160		160		160	
	Upper Chapman Res	Fryingpan River	2450		2450		2450		2450		2450		2450	
	SUBTOTAL (Pg. 1):		94,823		105,543		87,826		104,099				88,329	

















WD	RESERVOIR NAME	STREAM SOURCE	PREVIOUS YR				YR OF RECORD			
			Beg. YR	Z	Beg. Irr. Season	Z	Beg. YR	Z	Beg. Irr. Season	End
53	Clyde Res	Egeria Creek	6.4		66.4		6.4		66.4	6
	Crescent Lake	Derby Creek	87.2		237.2		87.2		237.2	0
	Ed W. Harper	Egeria Creek	14.2		194.2		14.2		194.2	14.2
	Egeria Res	Egeria Creek	7		107		7		107.3	7
	Grimes Brooks Res	Red Ditch Creek	316		316		206		326	0
	Hadley Res	Egeria Creek	164		164		164		164.6	164.6
	Heart Lake Res	Deep Creek	3,255		3,255		3,255		3,255	3,255
	Hidden Springs Res	Horse Creek	NIA		NIA		NIA		NIA	NIA
	Jones No. 1 Res	Sheep Creek No. 2	0		240		0		200	0
	Jones No. 2 Res	Sheep Creek No. 2	0		83		3		400	255
	Kelly Res	Egeria Creek	43		93		43		226	30
	Luark Res	Spring Creek	0		90		0		90	0
	Mackinaw Lake Res	Derby Creek	NIA		NIA		NIA		NIA	NIA
	Morris Res	Toponas Creek	0		294		0		75	0
	Newton Gulch Res	King Creek	0		120		0		123	0
	Reid Res No. 3	Egeria Creek	93		93		93		93	93
	Sterner Res	Egeria Creek	0		100		30		90	0
	Sweetwater Res	Sweetwater Creek	12,000		12,000		12,000		12,000	12,000
	Tonier Gulch Res	Tonier Gulch	64		64		64		64	64
		SUBTOTAL (Pg. 1):	16,049.8		17,516.8		15,972.8		17,711.7	15,888.8



WD	RESERVOIR NAME	STREAM SOURCE	1988 PREVIOUS YR				1989 YR OF RECORD				End YR
			Beg. YR	%	AF	%	Beg. YR	%	AF	%	
					Beg. Irr. Season		Beg. Irr. Season		Beg. Irr. Season		
72	Big Beaver Reservoir	Bull Creek	0		81		0		79		0
	Big Creek No 1 Reservoir	Big Creek	746		746		0		746		0
	Big Creek No 3 Reservoir	Big Creek	1,506		1,506		1,308		1,549		980
	Big Creek No 4 Reservoir	Big Creek	0		181		181		143		0
	Big Creek No 5 Reservoir	Big Creek	55		94		0		105		0
	Big Creek No 7 Reservoir	Big Creek	891		1,223		592		1,223		271
	Bull Basin No 1 Res	Bull Creek	0		70		0		0		0
	Bull Basin No 2 Res	Bull Creek	0		62		0		30		0
	Bull Creek No 1 Res	Bull Creek	0		83		0		83		0
	Bull Creek No 2 Res	Bull Creek	70		70		0		70		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	68		236		106		236		35
	Colby Horse Park Res	Leon Creek	130		490		162		490		30
	Coon Creek No 1 Res	Coon Creek	0		0		0		0		0
	Coon Creek No 2 Res	Coon Creek	0		0		0		120		0
	Coon Creek No 3 Res	Coon Creek	0		0		0		47		0
	Cottonwood Lake Res No 1	Cottonwood Creek	1,445		1,743		1,670		1,114		1,378
	Cottonwood Lake Res No 2	Cottonwood Creek	0		220		0		143		0
	SUBTOTALS:		4,911		7,031		4,019		6,404		2,694

WD	RESERVOIR NAME	STREAM SOURCE	1988				1989				
			PREVIOUS YR		YR OF RECORD		PREVIOUS YR		YR OF RECORD		
			Beg. YR	%	Beg. YR	%	Beg. YR	%	Beg. YR	%	End YR
72	Cottonwood Lake Res No 4	Cottonwood Creek	149		377		260		285		257
	Cottonwood Lake Res No 5	Cottonwood Creek	342		342		209		171		72
	Dawson Reservoir	Big Creek	220		220		220		220		203
	Hawkhurst Reservoir	Hawkhurst Creek	117		154		0		71		0
	Highline Reservoir	Mack Wash	2,080		2,080		2,080		2,080		2,770
	Jerry Creek Res No 1	Plateau Creek	1,320		1,320		1,037		1,197		192
	Jerry Creek Res No 2	Plateau Creek	5,495		5,495		5,668		5,705		5,350
	Kendall Reservoir	Leon Creek	NIA		NIA		0		84		0
	Kirkendall Reservoir	Leon Creek	NIA		NIA		0		112		0
	Leon Lake Reservoir	Leon Creek	602		1,924		665		1,477		378
	Lost Lake Reservoir	Bull Creek	0		0		0		24		0
	Mack Mesa Reservoir	Mack Wash	NIA		NIA		NIA		NIA		NIA
	Mesa Creek No 1 Res	Mesa Creek	187		131		0		78.3		0
	Mesa Creek No 3 Res	Mesa Creek	290		285		0		146		0
	Mesa Creek No 4 Res	Mesa Creek	0		9		0		109		0
	Monument No 1 Reservoir	Leon Creek	66		572		0		572		0
	Monument No 2 Reservoir	Leon Creek	0		102		0		102		0
	Palisade Cabin Reservoir	Rapid Creek	970		1,009		957		775		800
	Palisade Storage Res 1	Rapid Creek	109		109		87		NIA		NIA
	SUBTOTALS:		11,947		14,129		11,183		13,208		10,022









WD	RESERVOIR NAME	STREAM SOURCE	1988 PREVIOUS YR				1989 YR OF RECORD				End
			Beg. YR	AF	%	Beg. Irr. Season	Beg. YR	AF	%	Beg. Irr. Season	
38	AMV Reservoir No 1	Blue Creek	5			5.1	5			5	5
	AMV Reservoir No 2	Blue Creek	5			5.1	5			5	5
	AMV Reservoir No 3	Blue Creek	5			5.1	5			5	5
	Buck Point Ranch Res 1	Mesa Creek	20.5			20.5	20			20	20
	Buck Point Ranch Res 2	Mesa Creek	15			15.5	15			15	15
	C and M Pond	Four Mile Creek	.25			.35	.25			0.3	0.3
	Carroll Pond	Four Mile Creek	.31			.41	.31			0.3	0.3
	Christine Lake	Roaring Fork River	17			17.5	17			17	17
	Crawford Dam No 3	Blue Creek	25			26	25			25	0
	Crooked Creek Reservoir	Fryingpan River	40			43	40			40	40
	Deane Pond No 1	Roaring Fork River	5			5	5			5	5
	Deane Pond No 2	Roaring Fork River	20			22	20			20	20
	East Creek Res and PL	Crystal River	6			6.2	6			6	6
	Elk Creek Res No 2	Elk Creek	10			10.5	10			10	10
	Hawk Gulch Reservoir	Edgerton Creek	12			13	12			12	12
	Hell Roaring Res No 1	Crystal River	2			2.3	2			2	2
	Hendricks Fish Pond	Fryingpan River	2			2.3	2			2	2
	Highland Pond No 1	Maroon Creek	2			2.3	2			2	2
	Highland Pond No 3	Maroon Creek	9			9.5	9			9	9
	SUBTOTALS:		201.1			211.7	200.6			200.6	175.4

WD	RESERVOIR NAME	STREAM SOURCE	1988 PREVIOUS YR				1989 YR OF RECORD				
			Beg. YR	%	Beg. Irr. Season	%	Beg. YR	%	Beg. Irr. Season	%	End I
38	Hignett Pond	Blue Creek	5		5.1		5		1		1
	Hutchins Bros Res 1	Sopris Creek	40		41.5		40		40		40
	Hutchins Bros Res 2	Sopris Creek	7		7.3		7		7		7
	James Reservoir	Roaring Fork River	8.3		8.6		8.3		8.3		8.3
	Kopp Pond	Roaring Fork River	4		4.1		4		4		4
	Magnifico Ponds	Waste and Seeps	5.3		5.5		5.3		5.3		5.3
	Martin Reservoir Alt 1	Four Mile Creek	4		5		0		4		0
	McVey Reservoir	Cattle Creek	3		3.2		3		3		3
	R E H Reservoir	Crystal River	13.6		14		13.6		13.6		13.6
	St. John Reservoir	Thomas Creek	0		5		4.5		4.5		4.5
	Stainton Pond No 1	Four Mile Creek	1		1.1		1		1		1
	Stainton Pond No 2	Four Mile Creek	1		1.1		1		1		1
	Stainton Pond No 3	Four Mile Creek	8		8		4.5		8		0
	Stainton Pond No 4	Four Mile Creek	4		5		1.8		5		0
	Tagert Lake	Roaring Fork River	30		31		30		30		30
	Von Springs Res No 1	Coulter Creek	0		25		0		34		0
	Waters Reservoir	Coulter Creek	17.5		18		17.5		17.5		17.5
	Wexner Pond	Roaring Fork River	8.5		8.8		8.5		8.5		8.5
	SUBTOTALS:		160.2		197.3		155.0		195.7		144.7
	TOTALS:		361.3		409.0		355.6		396.3		320.3







WD	RESERVOIR NAME	STREAM SOURCE	1988 PREVIOUS YR						1989 YR OF RECORD					
			Beg. YR		Beg. Irr. Season		Beg. YR		Beg. Irr. Season		Beg. YR		Beg. Irr. Season	
			AF	%	AF	%	AF	%	AF	%	AF	%	AF	%
51	Cole Reservoir	Battle Creek	0		43		0		30		0		0	
	Dale Reservoir	Battle Creek	9		25		4		25		2		2	
	Doe Creek Reservoir	Doe Creek	0		4		0		4		0		0	
	F W Linke No 3 Reservoir	Ten Mile Creek	5		26		0		20		0		0	
	F W Linke Reservoir	Ten Mile Creek	5		4		0		35		0		0	
	Gregerson Reservoir	Copper Creek (Kinney)	8		30		8		38		33		33	
	Huntington Reservoir	Sheriff Creek	0		0		0		15		0		0	
	Lewis Pond Empoundment	Williams Fork River	3		3		3		3		3		3	
	Linke Reservoir	Ten Mile Creek	2		40		0		20		0		0	
	Little HO Reservoir	Walden Hollow	20		20		20		34		20		20	
	Marte-Linke Reservoir	Nine Mile Creek	20		20		20		36		18		18	
	McCandliss Reservoir	Skylark Creek	0		24		0		24		0		0	
	Pickering Reservoir	Fraser River	20		20		20		20		20		20	
	Robinson Swan Pond No 1	Williams Fork River	1		3		1		3		1		1	
	Skylark Reservoir	Skylark Creek	0		12		0		12		0		0	
	Springdale Reservoir	Copper Creek (Kinney)	NIA		NIA		0		0		0		0	
TOTALS:			93		274		77		319		97		97	

WD	RESERVOIR NAME	STREAM SOURCE	PREVIOUS YR 1988				YR OF RECORD 1989				
			Beg. YR 1988		Beg. I.R. Season 1988		Beg. YR 1989		Beg. I.R. Season 1989		End
			AF	%	AF	%	AF	%	AF	%	AF
52	Box Canyon Reservoir	Piney River	29		29		29		29		29
	Castle Reservoir	Piney River	0		30		0		30		0
	Forster Reservoir	Sheephorn Creek	NIA		NIA		NIA		30		0
	Gore Canyon Ranch Lake 1	Colorado River	.75		.75		.75		.75		.7
	Gore Canyon Ranch Lake 2	Colorado River	.75		.75		.75		.75		.7
	Gore Canyon Ranch Lake 3	Colorado River	2.5		2.5		2.5		2.5		2.
	Gore Canyon Ranch Lake 4	Colorado River	.8		.8		.8		.8		.8
	Hurt Reservoir	Alkali Creek	0		50		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.
	Olsen Reservoir No 3	Piney River	2.3		2.3		2.3		2.3		2.
	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.
	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.
	Piney Peak Pond No 4	Sheephorn Creek	1		1		1		1		1
	Piney Peak Pond No 5	Sheephorn Creek	1.2		1.2		1.2		1.2		1.1
	TOTALS:		101.7		181.7		101.7		211.66		101.



WD	RESERVOIR NAME	STREAM SOURCE	1988 PREVIOUS YR				1989 YR OF RECORD				End
			Beg. Yr		Beg. Irr. Season		Beg. Yr		Beg. Irr. Season		
			AF	%	AF	%	AF	%	AF	%	
53	A J Reservoir	King Creek	38		38		0		22.2		0
	Calvick Reservoir	Sweetwater Creek	24		24		24		24		24
	E M Curry Reservoir	Skinner Creek	0		26		0		30		0
	Fairview Reservoir	Rock Creek	12		12		12		NIA		NIA
	Hadley No 2 Reservoir	Egeria Creek	24		24		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
	King Mountain Reservoir	Egeria Creek	25		25		25		25		25
	Maloney Reservoir	Horse Creek	13		13		13		13.7		13
	Noble Reservoir	Sutton Creek	0		32		0		32.6		0
	P J Martin Reservoir	Sheep Creek 2	15		15		15		0		0
	Roberta Reservoir	Egeria Creek	49.6		49.6		49.6		49.6		49
	Sawmill Reservoir	Horse Creek	10		10		10		10		10
	Stout Reservoir	Sweetwater Creek	8		8		8		8		8
	Tepe Reservoir	Tepe Creek	0		10		0		10.5		0
	Yarmony Reservoir	Yarmony Creek	0		44		0		45		0
TOTALS:			261.1		373.1		223.1		337.1		196.8





RESERVOIR STORAGE SCALARIES LESS THAN 50 AF

WD	RESERVOIR NAME	STREAM SOURCE	PREVIOUS TYR				TYR OF RECORD				
			Beg. TYR	AF	Beg. Irr. Season	%	Beg. TYR	AF	Beg. Irr. Season	%	End Ty
36			85.0		155.0		115.5		178.0		113.5
37			0		0		89.4		89.4		89.4
38			361.0		409.0		356.0		396.0		320.0
39			36.9		77.3		26.7		31.7		26.7
45			76.8		113.7		79.3		104.5		59.5
50			75.0		181.0		101.0		224.0		98.0
51			93.0		274.0		77.0		319.0		97.0
52			101.7		181.7		101.7		211.7		101.7
53			261.1		373.1		223.1		337.1		196.8
70			0		0		0		0		0
72			68.0		68.0		68.0		128.0		50.0
		TOTALS:	1158.5		1832.8		1237.7		2019.4		1152.6

WD	RESERVOIR NAME	STREAM SOURCE	PREVIOUS YR						YR OF RECORD						
			Beg. YR	AF	%	Beg. Irr. Season	AF	%	Beg. YR	AF	%	Beg. Irr. Season	AF	End	
	DISTRICT TOTALS RESERVOIRS GREATER THAN 50 AF														
36			351,172			416,464			334,573			422,468			325,0
37			42,345			39,726			27,798			27,555			18,5
38			96,453			107,523			89,411			105,822			89,8
39			2,143			12,240			1,888			12,276			1,2
45			557			757			556			795			5
50			2,027			8,144			1,853			9,268			1,0
51			535,872			626,925			499,240			495,923			368,1
52			190			190			190			190			1
53			16,143			17,694			16,066			17,893			15,9
70			0			0			0			0			0
72			26,382			53,370			23,521			47,777			16,0
	DIVISION TOTAL RESERVOIRS GREATER THAN 50 AF:		1,073,284			1,283,033			995,096			1,139,907			836,7
	DIVISION TOTAL RESERVOIRS LESS THAN 50 AF:		1,159			1,833			1,238			2,019			1,1
	DIVISION 5 TOTAL STORAGE:		1,074,443			1,284,866			996,334			1,141,926			837,9





D. WATER COURT ACTIVITIES Calendar Year 1989 (1/1/89 thru 12/31/89))

Number of Water Rights Applications = 89CW001 thru 89CW327  
287 = Division 5 39 = Division 6 1 = Change of Venue to Division 4

Number of Structures in 1989 Applications = 682

Water Court Cases Decreed For Division 5 in 1989 = 323

E. OFFICE ADMINISTRATION Calendar Year 1989 (1/1/89 thru 12/31/89)

A. Notes below pertain to the page following this one:

*	Shelden, Jim E.	Passed away 7/21/89
*	Nichols, Becky	Transferred out 3/1/89
*	Klenda, Robert	Made full-time 9/1/89
*	McEwen, Bill	Transferred in 6/22/89 began working WD 38 then began working WD 52/53
*	Bergquist, Joe	Hired 9/11/89
*	Bieser, Robert	Retired 10/88
*	Hildebrand, Richard	Hired 4/15/89 then terminated employment after one day
*	Greene, Ronald	Hired 6/14/89
*	Reed, Miles	Retired 6/88; returned temporarily thru 5/89
*	Carlson, Robert	Transferred out 4/1/89
*	Wilson, Marshall	Hired 5/20/89
*	Hill, Clifford	Retired 11/1/89; suffered heart attack 7/7/89



E. OFFICE ADMINISTRATION (continued)

<u>NAME</u>	<u>POSITION</u>	<u>MILEAGE</u>
Bell, Orlyn J.	Division Engineer.....	16,185 S 923 P
Martellaro, Alan C.	Asst Division Engineer.....	444 P
McCabe, Robert D.	Sr Water Resource Engineer.....	1,129 P
Schildt, Wayne I.	Sr Wtr Res Engr (Hydro).....	3,038 S 182 P
Hitchcock, Nancy C.	Sr Secretary	358 P
Blair, John G.	Wtr Res Engr C (Dam Safety Inspector)	

FULL-TIME EMPLOYEES IN THE FIELD

<u>NAME</u>	<u>POSITION</u>	<u>DISTRICT</u>	<u>MONTHS BUDGETED</u>	<u>MONTHS WORKED</u>	<u>MILEAGE</u>
Wells, L. Wayne	Sr Wtr Comm	36/37	12	12	9,268 S 4,964 P
Cerise, Alvin L.	Wtr Comm C	38/39/45	12	12	18,869 P
Thompson, Wm. H.	Wtr Comm C	50	12	12	14,056 P
Shelden, Jim E.	Wtr Comm C	52/53*	12	6.5	5,662 P
Klocker, Marcus A.	Prin Wtr Comm	72	12	12	11,644 S 323 P

PERMANENT PART-TIME EMPLOYEES IN THE FIELD

Nichols, Becky	Wtr Comm B	38*	11	8	707 P
Whitehead, Dwight	Wtr Comm B	38/Wells	12	12	11,029 S 917 P
Klenda, Robert C.	Wtr Comm C	45*	12	12	12,299 P
McEwen, Bill	Wtr Comm B	38/52/53*		6.3	5,520 P
Bergquist, Joe	Wtr Comm B	38*		3.5	3,962 P
Lemon, James	Wtr Comm B	39	9	9	6,962 P
Nelson, Glen	Wtr Comm B	45	3	3	1,894 P
Daxton, James	Wtr Comm B	51	8	9	10,456 P
Anderson, George	Wtr Comm B	70	6	6.8	7,195 P
Bieser, Robert	Wtr Comm B	72*	6	0	--
Hildebrand, Richard	Wtr Comm B	72*		0	--
Greene, Ronald	Wtr Comm A	72*		3.5	3,824 P
Reed, Miles	Wtr Comm B	72*		1	1,952 P
Carlson, Robert	Wtr Comm B	72*	7.4	0	--
Wilson, Marshall	Wtr Comm A	72*		4.5	5,134 P
Cox, Tom	Wtr Comm B	72	6	6	5,049 P
Hill, Clifford	Wtr Comm B	72*	6	5.5	1,622 P
Hittle, Ray	Wtr Comm B	72	5	5	4,008 P
TOTALS:			91.4	95.1	61,164 S 118,411 P
GRAND TOTAL:			151.4	149.6	179,575

F. COLORADO RIVER CALLS FOR 1989

<u>DATE OF CALL</u>	<u>CALLING STRUCTURE</u>	<u>AMOUNT OF CALL</u>	<u>ADMIN NUMBER</u>
12/1/88	Shoshone Power Plant	158.0 cfs	33023.28989
12/1/88	" " "	1250.0 cfs	20427.18999
3/10/89	All Mainstem Calls Off		
7/5	Shoshone Power Plant	158.0 cfs	33023.28989
7/13	Shoshone Power Plant Call for 158.0 cfs Off		
7/17	Shoshone Power Plant	158.0 cfs	33023.28989
7/19	Grand Valley Canal	119.47 cfs	30895.23491
7/23	Shoshone Power Plant Call for 158.0 cfs OFF		
8/28	Grand Valley Project	730.0 cfs	22729.21241
9/6	Shoshone Power Plant	158.0 cfs	33023.28989
9/12	Shoshone Power Plant	1250.0 cfs	20427.18999
10/31	Grand Valley Canal Call for 119.47 cfs Off		
10/31	Grand Valley Project Call for 730.0 cfs Off		
12/31	Shoshone Power Plant Call for 1250.0 cfs Still On and for 158.0 cfs Still On		

January 2, 1990

MEMORANDUM

TO: DIVISION 5 PERSONNEL

FROM: ORLYN J. BELL *OJB*

RE: Staff Meeting  
January 3, 1990 - 2 p.m.

Items to be discussed:

- 1) 1989 Annual Report - Overview
  - a. What was accomplished
  - b. What was not accomplished
- 2) Personal and/or Division Goals for 1990  
(Need at least 4)
- 3) Major Items of Importance and Unique Situations Encountered  
During the 1989 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: 1/3/90 Staff Meeting Agenda Comments

I. My 1990 Goals:

1. To keep on top of my District by:
  - A. Keeping up with my 1989 goals.
  - B. Better use of the computer:
    - 1) By 4/1/90 having a copy of the Comments section of the 1989 diversion records, separated by stream number.
    - 2) By 4/1/90 having daily diversion sheets ready.
    - 3) By 4/1/90 having a copy of the CIU (Current In Use) Codes I and U, separated by stream number.
    - 4) By 4/1/90 having a copy of the Infrequent Diversion section of the 1989 diversion records separated by stream number.
2. How To Achieve My No. 1 Goal - By 4/5/90 having the above items distributed to my commissioners and myself with instructions to do diversion records as usual; also to update and add to the Infrequent diversions; to update the Comments section as per 1990 situations; review the CIU Codes I and U; and complete by 11/5/90.
3. To complete the abandonment list on schedule.
4. To improve my computer skills.
5. To learn more about water law.
6. My No. 1 Goal - To have my district's diversion records signed by 11/22/90.
7. To get a tabulation that is current to 1/1/90.
8. To upgrade my people skills.
9. To accompany George Anderson during administration.

II. My 1989 goals:

1. To take better charge of my district:
  - a. By getting some specialized training - seminars.
  - b. By keypunching my data monthly.
    - 1) Having my deputies correct the keypunching.
    - 2) Keeping up with dividing water as it happens.
  - c. By visiting a greater percentage of my infrequently recorded diversions.
  - d. Doing a more thorough job on field inspections.
2. Work up a Standard Operating Procedure for:
  - a. Mamm Creek
  - b. Garfield - Alkali Creek
  - c. Dry Hollow
3. Get a complete handle on my records
  - a. Get a print-out.
4. Get my monthly sheets labeled, sorted by stream and locality, and presented to my deputies before irrigation season.

Memorandum To File  
From Bob Klenda, Water Commissioner  
Page 2

Comments To Item 3 of Staff Meeting Agenda - Major Items of Importance and Unique Situations Encountered During the 1989 Irrigation Year:

Situations such as the reversal of priority, as has been necessary on Garfield and Divide Creeks, has created several unique situations, the first of those being a feeling amongst water users that the State can just come along and change a water right regardless of the fact that they believe it's been the old way for generations.

The Porter situation on Garfield, Alkali, and South Canyon Creeks: As I have heard neighbors say, "You know Mike was not killed over a deer, it was water." Or, "There was never a question of, 'Would Mike be killed?'" It was a question of, 'Who would do it and when?'"

The Mamm Creek and Gustafson Draw situation: A very small amount of water involved but neighbor relationships go much deeper.

The Shideler Waste Water Ditch situation where a water user has used the water for generations but now files on the water and loses the right to use it.

Cache Creek is undoubtedly unique. An overappropriated stream, a commissioner working the stream who also owns or leases very critical senior rights, and a junior user who enjoyed the use of water which he was only entitled to because he was industrious enough to develop ways to legitimately divert this water. Presently suffering the loss of that water because of tighter administration and other industrious water users.

I think you, Orlyn, as Division Engineer and the Division itself can be complimented for the unique situation of a roving commissioner and commissioners who serve as a commissioner in one district and a deputy to another commissioner in another district.

Comments to Item 4 of Staff Meeting Agenda - Concerns in 1990:

1. Drought.
2. Tight budget.
3. Personnel.
4. Ever expanding work load with a stable to diminishing work force.
5. Increasing cost of operating a vehicle versus a stable reimbursement.

Comments to Item 5 of Staff Meeting Agenda - Improvements

Improvements Accomplished:

Tabulation, stream administration lists, maps, annual records that are easily viewed and understood, field inspection training, computer understanding and abilities, hydro assistance and the resulting upgrading of diversions. Quality of administration has greatly improved, ability of commissioners to provide factual information to the public.

Improvements Needed:

More manpower, especially during high administration periods; state vehicle or increased mileage; higher rate of pay, especially for commissioners who become extremely proficient; more continuing education; a legislature that recognizes the obligation of ownership of water and the necessity of competent administration and its costs.

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(WTRWORK.DOC) (Page Breaks Reworked to Fit Annual Report Format)

MEMORANDUM

TO: Gary Barta

FROM: John G. Blair

RE: Winter 1989-1990 Work Schedule and Hydrology Questionnaires

DATE: October 27, 1989

As you requested, below is a list of work items I would like to do this winter and what I feel should be my priorities versus the required hydrologic questionnaires. My basic feelings are that follow-up work to this inspection season, design review of repairs submitted, and determining the actual hazard ratings on dams should have higher priority than the hydrologic questionnaire.

My reasoning on the hazard ratings having a higher priority is that, at least in Division 5, there are many land use and development changes occurring below dams. As the economy changes from agricultural-based to recreation-based, new developments get built below these existing dams; therefore, many of the existing hazard ratings are outdated or wrong. Since the Rules and Regulations are based upon the hazard class, it is important to know correctly what the actual classes are before we can determine how to treat these dams during inspection and determine whether spillways are adequate or not.

I would also like to stress that it is a good idea you are re-evaluating the requirements to have all Class 1 hydrologic questionnaires done by December 31. In order for me to complete all these questionnaires by December 31 and complete all the items I feel need to be done this winter, I will have to work at or greater than the same overtime rate I did this summer (on the average this was about 20 hours a month). In fact, I would appreciate it if you allowed me to take 3 to 4 hours comp time off a week this winter to account for the 82-plus hours of overtime I worked this summer. I can be flexible with my workload, requested comp time off, and priorities to get more hydrology questionnaires done by December 31. Very few items of my list have to be done by December 31. In fact, since we are in the winter mode in Division 5, it makes very little difference whether many of these items are done by December 31 or April 1; but in order for me to accomplish what I feel needs to be done this winter, flexibility is a necessity on your part too with these hydrology questionnaires.

It is very hard to equate my workload with everyone else's workload in our field engineering unit. Every field engineer has a distinct area with their own distinct characteristics and the fact I work in a Division office offers even more differences. I feel there is too much emphasis on numbers in our PACE Plans (i.e., number of dams inspected, number of hydrology studies to be done, etc.).

Gary Barta  
October 27, 1989

Page 2

Following is a list of items I feel take higher priority than the hydrology questionnaires and need to be done before the end of the year:

- 1) Follow-up to my recent inspection of Sylvan Lake in District 51 and removal restriction letter.
- 2) Possibility of Coon Creek No. 3 final inspection if they got the repair work done before it snowed (I should know early next week).
- 3) Mount pictures of inspections I did this year.
- 4) Review water commissioner inspection reports.
- 5) Design review of Parsons Reservoir. We have put Ed Opitz off long enough.
- 6) Preliminary hazard evaluation for all the dams on Leon Creek and possible field trip. This is necessary to see if I have to make another field trip to the two major diversion structures I did not know how to get to earlier this summer. This field trip has to be done before the snow gets too deep so I can see the structures. If the preliminary analysis not considering these structures shows these dams to be Class 2 or 1, then this trip is not necessary.
- 7) Help with the Division or some diversion records which are due around the middle of December. Because of the drought, and the fact that there were shortages in water commissioners due to transfers, illness, and death, many reservoirs were not visited this year by a water commissioner to get storage readings. My dam inspections are the only source of storage levels. I should help the Division some in establishing accurate reservoir diversion records. This would also involve in finishing capacity tables for which I collected data on. These are: Spring Park - District 38; LEDE - District 37; Milk Creek, Whitely Peak, Binco - District 50.
- 8) Any necessary follow-up on the Sterner Reservoir design review and Rapid Creek design review that needs to be done in a timely manner.
- 9) Michaelson Reservoir inspection of repair work and necessary follow-up.

Gary Barta  
October 27, 1989

Page 3

The status of the hydrology questionnaires of Class 1 dams that are presently required to be done by December 31 for a Standard rating on my PACE Plan are listed below. This disagrees with the 15 you told me over the phone.

1. Consolidated	Dist 38	Almost done, just need to complete
2. Grass Valley	Dist 39	Almost done, just need to complete
3. Goose Pasture Tarn	Dist 36	
4. Dillon	Dist 36	
5. Upper Blue	Dist 36	
6. Clinton Gulch	Dist 36	
7. Robinson	Dist 37	
8. Climax Moly No. 4	Dist 37	
9. Homestake	Dist 37	
10. Spring Park	Dist 38	
11. Wildcat	Dist 38	
12. Binco	Dist 50	
13. Whitely Peak	Dist 50	

I have completed hydrology questionnaires on six Class 1 dams and three Class 2 dams, one of which was downgraded from Class 1 to 2. Matheson Reservoir, which does not have a questionnaire completed, was originally on the list but it was downgraded to Class 2 which may be a reason for the discrepancy.

There are several work items that I feel need to be done this winter, some of which can wait until after December 31, if need be. However, the number of questionnaires I have to do will affect my completing these items if I have to wait until after December 31 to do any of this work. These items are listed below in order of importance.

- 1) Finish the Luark Dam hazard analysis to find what level the owner has to cut the spillway to make the dam Class 4. This has been put off since April.
- 2) Schedule dams I want to inspect in February, March, and April and send a tentative schedule to the owners to alert them I will be inspecting them early this year. This will help spread the load for next year.
- 3) Finish the Leon Creek Dams hazard evaluation if I had to make a field check to the diversion structures on Leon Creek.
- 4) Finish the Rock Creek hazard evaluation that I already started, with the new adjusted capacity.



Gary Barta  
October 27, 1989

Page 4

- 5) Help Sally Lewis with the District 50 and 51 files and coordinate a smooth transition.
- 6) Hazard evaluation of Mesa Lake No. 1, Mesa Creek No. 4, and Mesa Lake No. 3. This is a touchy area. Each year they query me on why I inspect some dams each year and not others. I found some potential errors in the old hazard study. I want to be able to answer the Mesa Creek Reservoir Company next year with consistent reliable facts.
- 7) Hazard evaluation of Griggs No. 1. This is a likely candidate for Class 4 status like Griggs No. 3. The owner is very much against dam inspectors inspecting his dams. He is also a very vocal and powerful member of the farming community. I would like to get this item taken care of before this dam comes up at its 5-year cycle, which will be next year.
- 8) Hazard evaluation of Grimes Brooks Reservoir. There has been much new development below the reservoir. It may be upgraded to Class 1. I wanted to check this last winter but did not have time.
- 9) Hazard evaluation of Black Lake No. 2 in District 37. This dam sits above Vail and is now listed as Class 3. Both owner (Division of Wildlife) and I feel this is wrong and needs to be checked for Class 2 or Class 1 status.
- 10) Hydrology analysis of Bull Creek No. 3 and Big Beaver (currently Class 3 dams), and Big Beaver hazard evaluation of both dams. This is another sensitive area. Bull Creek No. 3 was just recently repaired and I am getting hints from the Bull Creek Reservoir Company that Big Beaver may get repaired (or attempt a repair) this next year. I need to be prepared for this with some answers on what exactly needs to be done and whether an engineer is needed. The spillway of Big Beaver is questionable and so is the hazard rating. Bull Creek No. 3 is in the system so the hydrology for it is needed to do the hydrology for Big Beaver.
- 11) Make a preliminary screening for Class 4 status of the Class 3 dams I am to inspect next year.
- 12) Hazard evaluation of East Branch and Ute Creek. The tailings pond below these dams are large enough to possibly contain a dam break flood without causing damage downstream. This is pending data sent to us by AMAX.

Gary Barta  
October 27, 1989

Page 5

Other items optional that I would like to do only if I have time are:

- 1) Finalize hydrology studies of Class 3 dams I inspected last year in which the spillway adequacy is unknown so that I can keep the files up to date with my inspections. These would include: Hankison, Little H O, and Cottonwood in District 51; and Black Creek in District 36.
- 2) Graph seepage data for Little King Dam in District 51 for a better evaluation of its performance. They have been keeping very accurate records and the seepage is extensive.
- 3) Hazard evaluation of Black Lake in District 36 which is possibly a Class 4 dam and is a waste of time to inspect. I have the data and it comes up for inspection in 1991.
- 4) Hazard evaluation of Davis Gulch dam which is currently listed as nonjurisdictional but it is jurisdictional and potentially has a Class 4 rating. Exxon has supplied contour maps for this. However, this is not a sensitive area and it can wait, if need be.
- 5) Hazard evaluation of Ivanhoe. I question its Class 2 rating. This needs to be done before the hydrology questionnaire is completed.

Gary, please keep this memo in mind when you re-evaluate the hydrologic questionnaire requirements for this year and let's discuss my winter work load.

JGB/nch

cc: Orlyn J. Bell, Division Engineer

THE FOLLOWING PAGES CONTAIN:

ANNUAL WATER DIVERSION STATISTICAL SUMMARY REPORTS