

ROY ROMER
Governor



JERIS A. DANIELSON
State Engineer

DIVISION OF WATER RESOURCES

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

January 21, 1992

Dr. Jeris A. Danielson
State Engineer
Division of Water Resources
1313 Sherman Street, Room 818
Denver, CO 80203

Dear Jeris:

On behalf of the staff of Division 5, I submit the Annual Report for 1991.

I would like to express special thanks to the Division 5 personnel as well as you and your staff for the help and support in fulfilling the various responsibilities of water administration in Division 5.

Respectfully submitted,

Orlyn J. Bell
Division Engineer

Alan C. Martellaro
Assistant Division Engineer

:nch

1991

ANNUAL REPORT

DIVISION 5

DIVISION OF WATER RESOURCES

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ANNUAL REPORT
WATER DIVISION 5

I. WATER ADMINISTRATION

A. 1991 Water Year

The overall perception in Division 5 is that 1991 was a fairly good water year. The drought did not materialize. The runoff came timely as did most precipitation and for the most part water users were, if not satisfied, at least understanding and civil. The real challenges were due to budget cutbacks, hiring freezes, legislative fallout and internal pressures created by external politics.

Efforts to reach beyond traditional accomplishments through training, planning and perceptive management were somewhat stifled given the prevailing environment. However, many objectives were realized particularly in the basic area of water administration. Other areas didn't score out quite as well.

1. Accomplishments

With one eye on the issues of concern projected in last year's report, Division personnel set about accomplishing the business at hand including a balanced budget. The waters of the State were effectively administered. 31 needed Headgate and Repair Orders were issued. 22 new reservoir capacity tables were generated. All the scheduled reservoir inspections for Class 1 and Class 2 dams were completed and most of those for Class 3 dams. 81 regular S.E.E.D. inspections were made along with 17 follow-ups, 1 construction, and 2 complaint inspections. An additional 36 inspections were done from Division 6.

Division personnel continued total river administration with daily calculations and release adjustments, refined the method for setting weekly numbers for the call and also refined consumptive use calculations for West Slope

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replacements. A spreadsheet was just developed to allocate replacement water but hasn't yet been used. Spreadsheets were also developed to account for water.

The collection and recording of diversion data continues to be upgraded with an estimated 95 percent of all water rights receiving some kind of record. All water recorded is identified correctly by source, type and use including storage deliveries, augmentation replacement, and exchange water. The 1990 records were finished and signed.

One important gaging station below Ruedi Reservoir was relocated to install a stilling well and discontinue the use of the nitrogen bubbler. Also the new Toshiba Laptop computers to be used for working meter notes in the field should greatly reduce computing and writing time.

Two new pressure transducers to be installed in 1992 will aid in reservoir accounting and hopefully reduce costly maintenance trips that old transducer problems were causing.

Several much needed databases previously developed were expanded. The wells, water cases, abandonments, reservoirs, gravel pits and expenditures are now tracked electronically. Another interesting spreadsheet was developed which tracks personnel and what they do by program and task.

Well inspections were made as absolutely necessary but generally lagged as the inspector's primary duties once again were directed toward filling in on necessary administration. Water commissioners were involved in non-administrative activities as well by field inspecting most of the 281 water court applications. 215 inspections were made because of the 148 protests to 281 water rights on the abandonment list. Based on the field inspections as a result of those protests and various stipulations, the number on the abandonment list was reduced from 604 published to 372 water rights actually submitted to the Water Court December 31, 1991. Gravel pits were also inspected by the water commissioners.

Division 5 Water Court activity was slightly down with 281 applications. 204 written Summaries of Consultation were tendered to the Court along with numerous Objections and

Protests to Rulings of the Referee. Most of the 1989 decrees have been incorporated into the Tabulation.

A number of Division personnel were involved in various formal training sessions, the most notable of which were WordPerfect 5.1 classes for the secretary and Wells water commissioner.

In the area of capital goods, two new small 4x4 pickups were welcomed with open arms as was the 386-SX computer for the dam safety engineer.

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 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. Office personnel handled 10,440 phone calls and 1,827 walk-ins.

Specific meetings were held with: Mesa and Spring Creek water users, Bull Creek water users, Mesa County Planning Association, Big Creek water users, Pitkin County and Aspen planners and attorneys, Summit County Small Reservoir Study Group, realtor groups, Well Drillers Association, Northwest

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Council of Governments, Colorado River Water Conservation District, U.S. Bureau of Reclamation, Denver Water Conservation Board, Northern Colorado Water Conservancy District, West Divide Water Conservancy District, Basalt Water Conservancy District, and numerous ditch companies.

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

B. 1992 Water Year

1. Issues Impacting Division 5

First, as economics and/or quality issues dictate water conservation efforts or as water conversion takes place, hard decisions will have to be made as to how to handle the windfall of freed-up water. Lacking legislative action, existing law will prevail with either a water transfer application or administrative action triggering court involvement.

- a. The Grand Valley Salinity Project is freeing up water historically returned to the river as runoff. What should or will happen to the water historically called that will not be needed for decreed use? The environmental, political, legal, and socioeconomic issues of this problem are major.
- b. As each change of water right takes place, no matter what the size or location, the same windfalls are potentially available for salvaged and saved water.

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

- a. Conflicts over complex water demands require time and energy for the staff as the precious commodity--water--is bought and sold while in the legal arena very definite demands are set forth for its use. Minimum stream flows, endangered species requirements, and wetlands depletion considerations are only a few of the newer demands that must be weighed as the staff makes decisions concerning administration.
- b. Although non-point pollution concerns have not directly impacted the Division, it seems inevitable that the future holds challenges in this area. With quality concerns having a widespread focus, it seems only a matter of time before wilderness areas, "natural habitats," municipal waters, streams flowing outside state boundaries to neighboring states, groundwater and recreational waters have standards that need monitoring. Is it feasible that a new state department be established or that counties take over the quality policing?

Because quality and quantity of water are so closely related, it seems reasonable that administration of both be handled out of the same offices.

Third, relatively new diversion demands on a limited water supply are creating all kinds of pressure.

- a. The rapid growth in the high country and associated ski industry demands, including water for snowmaking, has necessitated not only more augmentation plans but increasingly complex augmentation plans requiring more manpower and expertise in administration. A Water District 36 water commissioner was authorized and hired; this should help the situation.
- b. 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

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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 snowmaking and municipal uses. We are even seeing pipelines heading south from the Colorado-Big Thompson and use changes occurring.

- c. The Front Range metro area has been involved in several major negotiations concerning water from the Colorado River. An agreement has been signed with Public Service Company of Colorado concerning payment in lieu of power generation at the Shoshone Power Plant (the major river call on the Colorado River), thus freeing up an additional depletion to the Colorado River of 30,000 to 50,000 acre-feet of firm yield during the non-irrigation season. No request to administer this agreement has been made but will occur sometime.
- d. Previously, agreements were signed with Summit County enabling augmentation plans and growth to proceed in the Upper Blue River with a uniform approach and protection for Denver water rights. Those have run headlong into minimum streamflow filings by the Water Conservation Board. This will create need for careful winter administration of the exchanges involved.
- e. A major agreement was worked out which basically gives Western Colorado a number of storage reservoirs for their usage, gives Northern Colorado several storage reservoirs for their replacement usage, and gives the Denver Metro area the Blue River and Williams Fork River, including Green Mountain Reservoir. Fortunately, all of this will be developed very slowly which gives us time to work out the administrative details.
- f. The entry and demise of the oil shale industry has affected Division 5. Conditional water rights have been left undeveloped; water rights that were transferred from agriculture to industrial uses have been left standing; and once farmed lands are turning to sagebrush. Oil prices will rise again and therefore the industry is protecting its rights but the population growth pressures associated with it have waned.

- g. 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.
- h. 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.
- i. San Diego, Las Vegas, and others are looking for water with interstate sales and transfers being actively contemplated.

2. Issues of Concern

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

- Existing mapping is wearing out and needs replacement.
- Do not have the hydrographic staff to handle the river accounting.
- Gasoline prices are escalating.
- Number and complexity of Augmentation Plans are prohibitive to administer with existing staff until software and databases are developed along with appropriate accounting sheets.
- Some work is still needed on the Tabulation. We need to include and/or revise augmentation entries.
- Five percent of diversion structures have no record at all, while others are very minimal with a smattering of user-supplied data.
- Active administration of springs, wells, and gravel pits will be difficult as well as counterproductive if water volume were the main criteria.

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- Staff gages and capacity tables are still needed for many reservoirs.
- Dealing effectively with protests to the abandonment list.
- Well inspections need to be increased as inconsistencies are increasingly evident.
- 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.
- There has been a large conversion of agricultural lands and waters to commercial and municipal development in Water District 36 and the decretal information and the data-gathering network is just now beginning with a new Water Commissioner.

3. Effect of Workload Changes

The increased efforts in communications within and outside of the agency as well as expanded public interaction takes time but pays dividends in acceptance by the water-using public. In these times of funding shortages and personnel cuts, this will be harder to do.

Additional water rights add to the administrative and recordkeeping processes each year. They also require vast amounts of personnel time in their investigation and decretal process.

The recent agreement to provide quality control for GIS irrigated acreage assessment with the U. S. Bureau of Reclamation by 1993 will tie up a lot of water commissioner time. This impact is still an unknown at this point.

Rumor has it that Division 5 will be reviewing well permits as was initiated in Divisions 3, 6, and 7 last year. The training of personnel and actual evaluation of 800-plus permit applications will be difficult to absorb.

The reassignment of reservoir inspections for Districts 50 and 51 is of paramount concern as the reservoir/dam safety inspector is already functioning beyond a reasonable limit.

4. Impact of the Budgets on Operations

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

Not only were we short in human resources but operating funds were precariously low. We had only enough to provide us with the supplies we needed to function at a less than desirable level.

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

For the second year in a row expenditures matched the budget; however, mileage was adjusted to provide all the needed other operating items. This is a very undesirable situation but not yet catastrophic. Water Commissioners are finding a way to still function effectively but the situation is not good.

5. Operational Concerns

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

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

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

6. Projected Work Items for 1992

The usual business of:

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

The following are specialized Work Items for 1992 and beyond:

- A. Train Water Commissioners in:
 - 1. Standardization of municipal recordkeeping.
 - 2. Field inspecting Augmentation Plans.
 - 3. Creating schematics and coding for Aug Plans.
 - 4. Administration of reservoirs.
 - 5. Administration of exchanges.
 - 6. Computer usage.

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- B. Inventory all fee wells and generate records. (Proposal to spend SB-200 funds to accomplish) *Project was not authorized in 1990 nor 1991 and is re-requested.
 - 1. Determine locations and establish mapping accordingly.
 - 2. Determine usage.
 - 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 Aug Plan Database that can be used for administration.
 - 3. Establish an accounting system for each active Aug Plan.
 - 4. Install control structures and measuring devices as necessary.
 - 5. Obtain field data.
 - 6. Administer.
- E. Prepare Tabulation for publishing July 1, 1992.
- F. Upgrade Structure Lists to match Tabulation.
- G. Develop computer accounting spreadsheets for:
 - 1. Blue River Diversion Project
 - 2. Continental-Hoosier System
- H. Increase utility of River Accounting Spreadsheet by:
 - 1. Phasing in hydrographic support.
 - 2. Utilizing real-time diversion data.
 - 3. Mixing and matching from various spreadsheets.
 - 4. Establishing method to electronically transfer spreadsheets to DBASE.
- I. See Appendix B for Proposed Dam Safety Work Items for 1992.

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- J. Write Individual Performance Objectives (IPO's) for Water Commissioners on diversion data and annual record submissions.
- K. Organize and implement program for hydrographic data collection for Division 5.
- L. Inventory gravel pits. (Proposal to spend SB-200 funds to accomplish) Using aerial photos for dating:
 - 1. Plot on mapping.
 - 2. Prepare directory of owners.
 - 3. Work to bring those needed into well permit compliance.
- M. Inventory and perform an on-site inspection of all test wells and monitoring holes. (Proposal to spend SB-200 funds to accomplish)
 - 1. Take steps necessary to bring them into compliance with State regulations.
 - 2. Insure proper abandonment where necessary.
- N. Design system to notify public of calls.
- O. Design system to solicit user-supplied information.
- P. Complete backlog of hydrographic records.
- Q. Implement secretarial handbook.
- R. Respond as necessary to abandonment protests in Water Court.
- S. Complete GIS mapping ground control by December 31, 1993.
- T. Add pressure transducers.

7. 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 water usage.
2. Address the public's needs in water resources.

In order to fulfill these Objectives, the following Goals must be attained:

- It is imperative that we have a complete and reliable Tabulation of water rights. (We should have a complete and reliable tabulation of permitted wells and, likewise, a complete and reliable dams database.)
- 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.

STATISTICAL INFORMATION

(Pages 1 - 26)

1991

TRANSMOUNTAIN DIVERSIONS SUMMARY
WATER DIVISION 5 - IMPORTS

WD	NAME	RECIPIENT				IYR OF RECORD				SOURCE	
		STREAM		PREVIOUS IYR		AF		DAYS			WD
		STREAM		AF	DAYS	AF	DAYS				
36	STEVENS & LEITER WELL	TENMILE CREEK				114.4	240	11	ARKANSAS RIVER		
38	ROARING FORK BYPASS FLOW	ROARING FORK RIVER		1,672	281	1,537	365	11	TURQUOISE RIVER		
45	DIVIDE-HIGHLINE FEEDER	DIVIDE CREEK		1,428	55	796	36	40	CLEAR FORK MUDDY CR		
50	SARVIS CREEK DITCH	RED DIRT CREEK		1,295	365	2,157	179	58	SARVIS CREEK		
53	DOME CREEK DITCH	EGERIA CREEK		58	NA	272	54	58	BEAR CREEK		
53	STILLWATER DITCH	EGERIA CREEK		4,138	100	1,405	114	58	BEAR CREEK		
72	REDLANDS POWER CANAL	COLORADO RIVER		538,683	362	540,000	395	42	GUNNISON RIVER		
72	GRAND JUNCTION MUNICIPAL	COLORADO RIVER		5,980	365	6,000	395	42	KANNAH CREEK		
72	FRUITA WATER WORKS	COLORADO RIVER		0	0	0	0	73	LITTLE DOLORES RIVER		
TOTAL DIV 5 IMPORTS:				553,254	1,528	552,281.4	1,778				

TRANSMOUNTAIN DIVERSIONS SUMMARY
WATER DIVISION 5 - EXPORTS

WD	NAME	STREAM	RECIPIENT						SOURCE	
			PREVIOUS IYR		IYR OF RECORD		WD	STREAM		
			AF	DAYS	AF	DAYS				
7	STRAIGHT CREEK TUNNEL	CLEAR CREEK	434	365	243	365	36	STRAIGHT CREEK		
7	VIDLER TUNNEL	CLEAR CREEK	668	114	1,220	123	36	SNAKE RIVER		
23	BOREAS PASS DITCH	TARRYALL CREEK	0	0	82	52	36	BLUE RIVER		
23	HOOSIER TUNNEL	MAIN FORK OF SOUTH PLATTE RIVER	11,130	136	12,400	146	36	BLUE RIVER		
80	ROBERTS TUNNEL	MAIN FORK OF SOUTH PLATTE RIVER	56,858	197	70,230	261	36	BLUE RIVER		
11	COLUMBINE DITCH	TENNESSEE CREEK	1,485	78	1,600	127	37	SOUTH FORK OF EAGLE RIVER		
11	EWING DITCH	TENNESSEE CREEK	812	189	846	133	37	SOUTH FORK OF EAGLE RIVER		
11	HOMESTAKE TUNNEL	SOUTH PLATTE VIA ARKANSAS RIVER	25,997	92	26,175	65	37	HOMESTAKE CREEK		
11	WURTZ DITCH	TENNESSEE CREEK	1,567	89	2,250	137	37	SOUTH FORK OF EAGLE RIVER		
11	BOUSTEAD TUNNEL	LAKE FORK CREEK	47,410	166	60,540	365	38	FRYINGPAN RIVER		
11	BUSK-IVANHOE TUNNEL	LAKE FORK CREEK	5,236	174	5,618	163	38	FRYINGPAN RIVER		
11	TWIN LAKES TUNNEL	LAKE FORK CREEK	43,634	365	42,890	365	38	ROARING FORK RIVER		
EXPORT SUBTOTALS (PAGE 1 OF 2):			195,231.00	1,965.00	224,094.00	2,302.00				

TRANSMOUNTAIN DIVERSIONS SUMMARY
WATER DIVISION 5 - EXPORTS

WD	NAME	STREAM	RECIPIENT						SOURCE	
			PREVIOUS IYR		IYR OF RECORD		WD	STREAM		
			AF	DAYS	AF	DAYS				
3	GRANDE RIVER DITCH	CACHE LA POUFRE RIVER	20,982	138	18,412	120	51	NORTH FORK COLORADO RIVER		
3	EUREKA DITCH	CACHE LA POUFRE RIVER	88	73	37	88	51	NORTH FORK COLORADO RIVER		
4	ALVA B ADAMS TUNNEL	BIG THOMPSON RIVER	202,845	341	190,200	356	51	NORTH FORK COLORADO RIVER		
6	MOFFAT TUNNEL	BOULDER CREEK	68,428	365	63,150	335	51	FRASER RIVER		
7	BERTHOUD PASS DITCH	CLEAR CREEK	637	124	593	99	51	FRASER RIVER		
6	AUGUST P GUMLUCK TUNNEL	BOULDER CREEK VIA FRASER RIVER	INCLUSIVE IN MOFFAT TUNNEL				51	51	WILLIAMS FORK RIVER	
6	VASQUEZ PIPELINE	BOULDER CREEK VIA FRASER RIVER	INCLUSIVE IN MOFFAT TUNNEL				51	51	WILLIAMS FORK RIVER	
40	LEON TUNNEL CANAL	SURFACE CREEK	1,132	84	1,508	132	72	LEON CREEK		
EXPORT SUBTOTALS (PAGE 2 OF 2):			294,112	1,125	273,900	1,130				
EXPORT SUBTOTALS (PAGE 1 OF 2):			195,231	1,965	224,094	2,302				
EXPORT TOTALS (PAGES 1 AND 2):			487,343	3,090	497,494	3,432				

RESERVOIR STORAGE SUMMARIES
WATER DIVISION 5

1991

WD	PREVIOUS IRRIGATION YEAR						IRRIGATION YEAR OF RECORD					
	BEG IRR YR		BEG IRR SEASON		BEG IRR YR		BEG IRR SEASON		BEG IRR YR		BEG IRR SEASON	
	AF	%	AF	%	AF	%	AF	%	AF	%	AF	%
	328,159		330,329		330,260		277,124		373,005			
36	20,648		20,830		14,061		14,264		38,162			
37	87,397		105,120		92,558		107,896		84,432			
38	3,011		2,863		3,012		13,446		3,533			
39	556		556		626		757		567			
45	1,118		7,934		1,692		8,312		2,495			
50	368,202		429,856		388,211		488,517		437,308			
51	121		97		57		114		79			
52	4,105		5,741		3,793		6,468		4,561			
53	0		0		0		0		0			
70	16,106		37,544		16,784		58,852		25,990			
72												
TOTALS - RESERVOIRS GREATER THAN 50 AF:												
	829,423		940,870		851,054		975,750		970,132			
TOTALS - RESERVOIRS LESS THAN 50 AF:												
	1,277		2,092		1,247		2,303		1,292			
DIVISION 5 TOTAL STORAGE:												
	830,700		942,962		852,301		978,053		971,424			

RESERVOIR STORAGE SUMMARIES GREATER THAN 50 AF
WATER DIVISION 5

1991

WD	RESERVOIR NAME	STREAM SOURCE	PREVIOUS IRRIGATION YEAR						IRRIGATION YEAR OF RECORD							
			BEG IRR YR		BEG IRR SEASON		BEG IRR YR		BEG IRR SEASON		BEG IRR YR		BEG IRR SEASON			
			AF	%	AF	%	AF	%	AF	%	AF	%	AF	%		
37	BENCHMARK LAKE	EAGLE RIVER	130		130		130		130		130		130		130	
	BLACK LAKE NO 2	GORE CREEK	90		90		90		90		90		90		90	
	BOLTS LAKE	CROSS CREEK	85		90		74		80		70					
	CHALK MOUNTAIN RES	EAGLE RIVER	204.1		204.1		204.1		204.1		204.1		204.1		204.1	
	CLIMAX MOLY NO 4 RES	EAGLE RIVER	1000		1000		1000		1000		1000		1000		1000	
	G G RESERVOIR	EBY CREEK	5		5		0		0		0		0		0	
	HOMESTAKE RESERVOIR	HOMESTAKE CREEK	15,681		15,786		9111		9113		32,989					
	L E D E RESERVOIR	GYPSUM CREEK	0		60		0		70		227					
	LOWER G G RESERVOIR	EBY CREEK	1		1		0		0		0		0		0	
	NOECKER RESERVOIR	EBY CREEK	0		12		0		60		0		0		0	
	O Z RESERVOIR	BRUSH CREEK	452		452		452		452		452		452		452	
	ROBINSON RESERVOIR	EAGLE RIVER	3000		3000		3000		3000		3000		3000		3000	
	WELSH RESERVOIR	ALKALI CREEK	0		0		0		65		0		0		0	
TOTALS:			20,648.1		20,830.1		14,061.1		14,264.1		38,162.1					

RESERVOIR STORAGE SUMMARIES GREATER THAN 50 AF
WATER DIVISION 5

1991

WD	RESERVOIR NAME	STREAM SOURCE	PREVIOUS IRRIGATION						IRRIGATION YEAR OF RECORD					
			YEAR		BEG IRR SEASON		BEG IRR YR		BEG IRR SEASON		END IRR YR			
			AF	%	AF	%	AF	%	AF	%	AF	%		
38	ALICIA LAKE RESERVOIR	LIME CREEK	673		673		673		673		673		673	
	BEAVER LAKE	CRYSTAL RIVER	73		73		73		73		73		73	
	CONSOLIDATED RESERVOIR	W COULTER CREEK	11		507		0		656		0		0	
	CRAWFORD DAM NO 1	BLUE CREEK	NIA		NIA		160		160		160		160	
	CRAWFORD DAM NO 2	BLUE CREEK	NIA		NIA		56		56		56		56	
	CROOKED CREEK RES	LIME CREEK	40		40		40		40		40		40	
	HIMMELAND RESERVOIR	FRYINGPAN RIVER	92		92		92		92		92		92	
	HOPKINS RESERVOIR	LANDIS CREEK	15		8		0.3		NIA		NIA		NIA	
	IVANHOE RESERVOIR	FRYINGPAN RIVER	0		0		0		788		0		0	
	JACOBSEN LAKES & PONDS	ROARING FORK RIVER	225		225		225		225		225		225	
	LAKE ANN RESERVOIR	SOPRIS CREEK	20		53.1		20		325		20		20	
	RALSTON NO 1 RESERVOIR	W COULTER CREEK	0		0		0		0		0		0	
	RUEDI RESERVOIR	FRYINGPAN RIVER	84,405		101,270		89,535		101,527		81,210		81,210	
	SPRING PARK RESERVOIR	CATTLE CREEK	4		252		5		1,602		203.5		203.5	
	THOMAS RESERVOIR	THOMAS CREEK	160		160		160		160		160		160	
	UPPER CHAPMAN RES	FRYINGPAN RIVER	119		119		119		119		119		119	
	VAN-CLEVE FISHER RES	MESA CREEK	0		146		0		0		0		0	
			85,837.		103,618.1		91,158.3		106,496.0		83,031.5		83,031.5	

RESERVOIR STORAGE SUMMARIES GREATER THAN 50 AF
WATER DIVISION 5

1991

WD	RESERVOIR NAME	STREAM SOURCE	PREVIOUS IRRIGATION YEAR			IRRIGATION YEAR OF RECORD						
			BEG IRR YR		BEG IRR SEASON		BEG IRR YR		BEG IRR SEASON		END IRR YR	
			AF	%	AF	%	AF	%	AF	%	AF	%
50	ALBERT RESERVOIR	ALBERT CREEK	3		125		0		125		0	
	ANTELOPE RESERVOIR	COLORADO RIVER	35		245		35		240		0	
	BASIN RESERVOIR	MUDDY CREEK	0		50		0		110		0	
	BINCO RESERVOIR	TROUBLESOME CREEK	5		204		0		500		0	
	HINMAN RESERVOIR	MUDDY CREEK	20		611		500		611		400	
	LAKE AGNES	MUDDY CREEK	400		430		420		432		420	
	MARTIN RESERVOIR	MUDDY CREEK	55		200		6		180		75	
	MATHESON RESERVOIR	TROUBLESOME CREEK	0		1,073		0		1,073		0	
	MC ELROY RESERVOIR	PASS CREEK	0		240		0		240		0	
	MC MAHON RESERVOIR NO 2	RED DIRT CREEK	440		3,600		377		3,500		1,240	
	MILK CREEK RESERVOIR	MUDDY CREEK	25		105		20		100		30	
	NORTH MEADOW RES (AKA MARTIN LILY POND)	MUDDY CREEK	0		185		0		200		50	
	OAKS RESERVOIR	MUDDY CREEK	20		61		4		61		10	
	PARSONS RESERVOIR	MUDDY CREEK	0		65		0		107		0	
	WHITELEY PEAK RESERVOIR	MUDDY CREEK	100		700		305		773		245	
	WOODS RESERVOIR	MUDDY CREEK	15		40		25		60		25	
	TOTALS:		1,118		7,934		1,692		8,312		2,495	

RESERVOIR STORAGE SUMMARIES GREATER THAN 50 AF
WATER DIVISION 5

1991

WD	RESERVOIR NAME	STREAM SOURCE	PREVIOUS IRRIGATION YEAR						IRRIGATION YEAR OF RECORD					
			BEG IRR YR		BEG IRR SEASON		BEG IRR YR		BEG IRR SEASON		BEG IRR YR		END IRR YR	
			AF	%	AF	%	AF	%	AF	%	AF	%	AF	%
51	BULL RUN RESERVOIR	WILLIAMS FORK RIVER	192		200		92		100		88			
	COTTONWOOD RESERVOIR	GARDINER CREEK	30		35		10		129		50			
	EAST BRANCH RESERVOIR	WILLIAMS FORK RIVER	2,000		1,900		2,000		2,000		1,700			
	F W LINKE NO 2 RES	TEN MILE CREEK	0		40		0		46		0			
	HANKINSON RESERVOIR	FRASER RIVER	116		86		116		116		116			
	JACK ORR RESERVOIR	COLORADO RIVER	20		20		20		20		20			
	KINGS RESERVOIR	BUFFALO CREEK	256		352		256		352		256			
	LAKE GRANBY	COLORADO RIVER	273,989		301,033		284,109		355,757		329,517			
	LANGHOLEN RESERVOIR	BATTLE CREEK	5		55		5		52		4			
	MEADOW CREEK RESERVOIR	RANCH CREEK	127		5,098		1,232		5,549		1,718			
	MOORE RESERVOIR	WILLIAMS FORK RIVER	75		175		75		150		75			
	MUSGRAVE RESERVOIR	CORRAL CREEK	0		350		0		350		0			
	ROCK CREEK RESERVOIR	ROCK CREEK	0		0		0		0		0			
	SCHOLL RESERVOIR	CORRAL CREEK	0		100		0		200		0			
	SHADOW MOUNTAIN RES	COLORADO RIVER	17,785		17,450		17,743		17,800		17,892			
	SUN VALLEY RESERVOIR	NORTH FORK OF COLO RIVER	72		72		72		72		72			
	SUBTOTALS (PAGE 1 OF 2):		294,637		326,966		305,730		382,693		351,508			

RESERVOIR STORAGE SUMMARIES GREATER THAN 50 AF
WATER DIVISION 5

1991

NO	RESERVOIR NAME	STREAM SOURCE	PREVIOUS IRRIGATION YEAR						IRRIGATION YEAR OF RECORD								
			BEG IRR YR		BEG IRR SEASON		BEG IRR YR		BEG IRR SEASON		BEG IRR YR		BEG IRR SEASON		END IRR YR		
			AF	%	AF	%	AF	%	AF	%	AF	%	AF	%	AF	%	
52	JONES RESERVOIR	HENRY CREEK	69.2		62.0		41.6		69.2		49.2						
	ROCK GAP DAM	HARTMAN GULCH	52.0		35.0		15.1		45.0		30.0						
TOTALS:			121.20		97.00		56.70		114.20		79.20						

RESERVOIR STORAGE SUMMARIES GREATER THAN 50 AF
WATER DIVISION 5
1991

NO	RESERVOIR NAME	STREAM SOURCE	PREVIOUS IRRIGATION YEAR			IRRIGATION YEAR OF RECORD			
			BEG IRR YR	BEG IRR SEASON	END IRR YR	BEG IRR YR	BEG IRR SEASON	END IRR YR	
			AF	%	AF	%	AF	%	
72	ANDERSON BROS RES NO 1	LEON CREEK	NIA		NIA		0	166	0
	BIG BEAVER RESERVOIR	BULL CREEK	0		0		0	130	0
	BIG CREEK NO 1 RES	BIG CREEK	0		0		0	0	0
	BIG CREEK NO 3 RES	BIG CREEK	980		1,493		609	1,549	1,549
	BIG CREEK NO 4 RES	BIG CREEK	0		152		0	188	186
	BIG CREEK NO 5 RES	BIG CREEK	0		105		26	105	105
	BIG CREEK NO 7 RES	BIG CREEK	271		1,116		582	1,223	755
	BOB MC KELVIE RES	PLATEAU CREEK	NIA		200		200	200	200
	BULL BASIN NO 1 RES	BULL CREEK	0		0		0	130	95
	BULL BASIN NO 2 RES	BULL CREEK	0		0		0	64	0
	BULL CREEK NO 1 RES	BULL CREEK	0		83		45	152	0
	BULL CREEK NO 2 RES	BULL CREEK	0		70		0	70	0
	BULL CREEK NO 3 RES	BULL CREEK	0		59		0	59	0
	BULL CREEK NO 4 RES	BULL CREEK	0		237		0	208	0
	BULL CREEK NO 5 RES	BULL CREEK	35		262		25	254	20
	COLBY HORSE PARK RES	LEON CREEK	30		490		116	474	94
	COON CREEK NO 1 RES	COON CREEK	0		0		0	326	0
SUBTOTALS (PAGE 1 OF 4):			1,316		4,267		1,603	5,298	3,004

RESERVOIR STORAGE SUMMARIES GREATER THAN 50 AF
WATER DIVISION 5

1991

WD	RESERVOIR NAME	STREAM SOURCE	PREVIOUS IRRIGATION YEAR						IRRIGATION YEAR OF RECORD							
			BEG IRR YR		BEG IRR SEASON		BEG IRR YR		BEG IRR SEASON		BEG IRR YR		BEG IRR SEASON		END IRR YR	
			AF	%	AF	%	AF	%	AF	%	AF	%	AF	%	AF	%
72	COON CREEK NO 2 RES	COON CREEK	0		225		41		89		0					
	COON CREEK NO 3 RES	COON CREEK	0		138		0		66		5					
	COTTONWOOD LAKE RES NO 1	COTTONWOOD CREEK	1,378		1,325		1,080		2,020		1,366					
	COTTONWOOD LAKE RES NO 2	COTTONWOOD CREEK	0		87		0		173		100					
	COTTONWOOD LAKE RES NO 4	COTTONWOOD CREEK	256		285		68		308		288					
	COTTONWOOD LAKE RES NO 5	COTTONWOOD CREEK	72		203		144		344		337					
	DAWSON RESERVOIR	BIG CREEK	203		220		0		213		195					
	GROVE CREEK RES NO 1	GROVE CREEK	NIA		NIA		0		252		0					
	GROVE CREEK RES NO 2	GROVE CREEK	NIA		NIA		0		76		0					
	HAWKHURST RESERVOIR	HAWKHURST CREEK	0		60		0		140		0					
	HIGHLINE RESERVOIR	MACK WASH	2,770		2,640		3,400		3,400		3,400					
	JENSEN RESERVOIR	COTTONWOOD CREEK	NIA		NIA		NIA		NIA		NIA					
	JERRY CREEK RES NO 1	PLATEAU CREEK	192		1,134		977		1,137		1,085					
	JERRY CREEK RES NO 2	PLATEAU CREEK	5,350		6,076		5,963		7,213		5,442					
	KENDALL RESERVOIR	LEON CREEK	0		56		0		56		0					
	KIRKENDALL RESERVOIR	LEON CREEK	0		112		0		161		0					
	LEON LAKE RESERVOIR	LEON CREEK	378		1,108		398		1,237		328					
SUBTOTALS (PAGE 2 OF 4):			10,599		13,669		12,071		16,885		12,546					

1991
RESERVOIR STORAGE SUMMARIES LESS THAN 50 AF
WATER DIVISION 5

WD	PREVIOUS IRRIGATION YEAR						IRRIGATION YEAR OF RECORD					
	BEG IRR YR		BEG IRR SEASON		%		BEG IRR YR		BEG IRR SEASON		%	
	AF	%	AF	%	AF	%	AF	%	AF	%	AF	%
36	114		185		109		181		110			
37	104		104		104		104		104			
38	337		323		385		404		361			
39	71		72		36		76		46			
45	54		93		69		90		55			
50	98		208		64		283		112			
51	117		354		103		350		127			
52	109		164		123		182		123			
53	194		343		150		337		150			
70	0		0		0		0		0			
72	79		246		104		296		104			
DIVISION 5 TOTALS - RESERVOIRS LESS THAN 50 FT.:												
	1,277		2,092		1,247		2,303		1,292			

WATER DIVERSION SUMMARIES BY DISTRICT
WATER DIVISION 5
1991

DISTRICT	TOTAL DITCHES REPORTING				ESTIMATED NO. DITCH VISITS	TOTAL DIVERSIONS (AF)	TOTAL DIVERSIONS TO STORAGE (AF)	IRRIGATION		
	ACTIVE		INACTIVE					TOTAL DIVERSIONS (AF)	NO. OF ACRES IRRIGATED	AVERAGE AF PER ACRE
	WA	NWA	NU	MA						
36	303	6	377	346	643,653	144,101	88,752	13,696	6.48	
37	219	18	483	460	143,951	28,899	100,370	16,238	6.18	
38	1,256	11	928	1,092	580,807	46,726	307,047	35,181	8.73	
39	476	16	278	277	186,972	11,469	131,031	21,361	6.13	
45	534	54	356	141	136,611	349	119,351	26,321	4.53	
50	232	2	91	24	89,533	6,908	82,422	26,403	3.12	
51	454	2	434	373	844,123	293,722	161,611	28,908	5.59	
52	201	6	95	74	26,060	148	25,301	8,288	3.05	
53	539	6	189	68	864,654	2,917	110,745	30,600	3.62	
70	128	36	156	58	20,749	0	20,605	4,176	4.93	
72	435	69	392	617	1,830,978	47,260	856,200	124,607	6.87	
TOTALS:	4,777	266	3,779	3,530	5,368,091	582,499	2,003,435	335,779	5.97	
TOTAL STRUCTURES:				12,352						

1991
 WATER DIVERSION SUMMARIES BY DISTRICT (Continued)
 WATER DIVISION 5

DIST	TRANSMOUNTAIN OUTFLOW (AF)	TRANSBASIN OUTFLOW (AF)	STOCK & WILDLIFE (AF)	MUNICIPAL (AF)	DOMESTIC & HOUSEHOLD (AF)	INDUSTRIAL (incl power) (AF)	RECREATIONAL (AF)	FISHERY (AF)	COMMERCIAL (AF) (incl snowmaking)	EVAPORATION (AF)
36	97,067	0	4	5,890	63	293,341	673	4	943	12,815
37	7,769	0	0	5,242	176	0	0	0	338	1,157
38	109,697	609	1,490	7,953	1,286	96,224	0	7,050	53	2,672
39	0	0	582	2,359	2,541	1,089	0	37,740	2	159
45	0	0	15,091	1,068	596	37	0	0	0	119
50	0	0	108	0	24	0	0	33	0	38
51	272,429	3,454	4,681	2,237	251	85,376	0	235	217	19,910
52	0	96	270	0	78	4	67	0	1	95
53	0	0	109	4,548	310	743,217	6	575	1,231	996
70	0	0	76	48	15	5	0	0	0	0
72	1,508	1,058	2,740	21,490	102	878,650	0	20,139	41	1,790
TOTALS:	488,470	5,217	25,151	50,835	5,442	2,097,943	746	65,776	2,826	39,751

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G. WATER COURT ACTIVITIES Calendar Year 1990 (1/1/91 - 12/31/91)

Number of Water Rights Applications = 91CW001 thru 91CW281
260 = Division 5 21 = Division 6

Number of Water Court Applications by District:

District 36 = 16	District 45 = 16	District 53 = 11
District 37 = 42	District 50 = 1	District 70 = 7
District 38 = 89	District 51 = 12	District 72 = 33
District 39 = 20	District 52 = 5	

Number of Structures in Applications by District
(including aug/exchange/-change cases):

District 36 = 94	District 45 = 32	District 53 = 38
District 37 = 192	District 50 = 1	District 70 = 17
District 38 = 170	District 51 = 30	District 72 = 56
District 39 = 57	District 52 = 8	

Number of Cases Decreed = 210
Number of Cases Decreed Abandoned for Lack of Diligence = 14
Number of Applications Denied = 1
Number of Cases Dismissed = 7
Number of Cases Withdrawn = 2

H. OFFICE ADMINISTRATION Calendar Year 1990 (1/1/91 - 12/31/91)

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

District 36 = 0	District 45 = 3	District 53 = 6
District 37 = 11	District 50 = 0	District 70 = 0
District 38 = 6	District 51 = 0	District 72 = 5
District 39 = 0	District 52 = 0	

<u>NAME</u>	<u>POSITION</u>	<u>MILEAGE</u>	
OFFICE STAFF:			
Bell, Orlyn	Division Engineer	1,540	P
Martellaro, Alan	Assistant Division Engineer	1,150	P
McCabe, Robert	Wtr Resource Engineer	317	P
Schildt, Wayne	Wtr Resource Engineer (Hydro)	0	P
Blair, John	Wtr Resource Engineer (Dam Safety)	0	P
Whitehead, Dwight	Wtr Commissioner B (Wells/Dist 38)	180	P
Hitchcock, Nancy	Secretary	0	P

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H. OFFICE ADMINISTRATION (cont) Calendar Year 1990 (1/1/91 - 12/31/91)

FULL-TIME EMPLOYEES IN THE FIELD:

<u>NAME</u>	<u>POSITION</u>	<u>DISTRICT</u>			
Hummer, Scott	Wtr Commissioner B	36	13,930	P	
Wells, Wayne *	Sr Wtr Commissioner	72	334	P	
Bergquist, Joe	Wtr Commissioner B	38	11,971	P	
Cerise, Alvin	Wtr Commissioner C	38/39/45	10,111	P	
Klenda, Robert	Sr Wtr Commissioner	45	9,532	P	
Thompson, William	Sr Wtr Commissioner	50	10,759	P	
Klocker, Marcus **	Principal Wtr Commissnr	72	0	P	
* Wells, Wayne - transferred from Dist 37 to Dist 72			4,91		
** Klocker, Marcus - retired 4/91					

PERMANENT PART-TIME EMPLOYEES IN THE FIELD:

McEwen, William	Wtr Commissioner B	37/52/53	198	P	
Lemon, James	Wtr Commissioner B	39	4,469	P	
Nelson, Glen	Wtr Commissioner B	45	1,645	P	
Daxton, James	Wtr Commissioner B	51	9,332	P	
Anderson, George	Wtr Commissioner B	70	7,305	P	
Cox, Tom	Wtr Commissioner B	72	3,932	P	
Greene, Ronald	Wtr Commissioner A	72	6,735	P	
Brigham, Thomas *	Wtr Commissioner A	72	8,042	P	
Hawkins, M. Wesley*	Wtr Commissioner A	72	5,250	P	
Nostrand, John *	Wtr Commissioner A	72	3,975	P	
* T. Brigham & W. Hawkins Hired 5/91					
* Nostrand, John - temporary 4/91-9/91					

TOTAL OFFICE & FIELD PERSONAL REIMBURSABLE MILES DRIVEN: 110,706 P

STATE VEHICLES ASSIGNED TO DIVISION 5:

		<u>MILEAGE</u>	
13-0382	Principal Driver: Wayne Schieldt (till 4/91)	1,752	S
13-0359	Principal Driver: Wayne Wells	15,241	S
13-0423	Principal Driver: Dwight Whitehead (till 4/91)	1,492	S
13-0414	Principal Driver: John Blair	7,096	S
TOTAL STATE VEHICLE MILES DRIVEN:		<u>25,581</u>	S

FLEET MANAGEMENT LEASE VEHICLES ASSIGNED TO DIVISION 5:

		<u>MILEAGE</u>	
01-8416	Principal Driver: Bill McEwen	10,928	L
01-8190	Principal Driver: Orlyn Bell	17,981	L
01-8195	Principal Driver: Dwight Whitehead (replacement for Veh 13-0423)	8,144	L
01-8796	Principal Driver: Wayne Schieldt (replacement for Veh 13-0382)	10,218	L
TOTAL LEASE VEHICLE MILES DRIVEN:		<u>47,271</u>	L

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I. COLORADO RIVER CALLS FOR 1991

COLORADO RIVER CALLS AT SHOSHONE POWER PLANT

<u>DATE</u>	<u>CALLING STRUCTURE</u>	<u>DECREED AMOUNT</u>	<u>ADMIN NO.</u>
11/1/90	Shoshone Power Plant	1250.0 cfs	20427.18999
3/6/91	Shoshone Power Plant	Call for 1250.0 cfs	OFF
3/27/91	Shoshone Power Plant (both turbines back in operation)	1250.0 cfs	20427.18999
5/8/91	Shoshone Power Plant	Call for 1250.0 cfs	OFF
8/9/91	Shoshone Power Plant	158.0 cfs	33023.28989
9/13/91	Shoshone Power Plant (only rights junior to Admin No 30895.23491 were called out)		
9/23/91	Shoshone Power Plant (all rights junior to Admin No 20427.18999 were called out)	1250.0 cfs	20427.18999
9/30/91	Shoshone Power Plant	Call for 1250.0 cfs and 158.0 cfs	both OFF (power plant shut down for maintenance)
10/11/91	Shoshone Power Plant (maintenance completed)	1250.0 cfs	20427.18999

COLORADO RIVER CALLS BELOW CAMEO

<u>DATE</u>	<u>CALLING STRUCTURE</u>	<u>DECREED AMOUNT</u>	<u>ADMIN NO.</u>
9/2/91	Grand Valley Canal	119.47 cfs	30895.23491
9/13/91	Grand Valley Canal	Call for 119.47 cfs	OFF
9/30/91	Grand Valley Canal	119.47 cfs	30895.23491
10/25/91	Grand Valley Canal	Call for 119.47 cfs	OFF

DIVISION 5
1992 DAM SAFETY GOALS, OBJECTIVES AND WORK ITEMS

MISSION PUBLIC SAFETY: We seek to prevent both loss of life and property damage from the failure of dams.

OBJECTIVES

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

GOALS

1. To make annual safety inspections of Class 1 and Class 2 dams, and to inspect Class 3 dams every five years.
2. To make quality reviews of plans and specifications for the construction of dams, within the 180-day statutory time limit.
3. To inspect the construction of a dam as often as necessary to assure that the work is being done in accordance with the approved plans and specs, and to assure that changed conditions will not jeopardize the approved design.
4. To implement the requirements of the regulations in a timely manner (hazard ratings, hydrologic standards, outlet inspections, instrumentation, emergency preparedness plans, owner inspections, and maintenance plans).
5. To maintain the database of the Dam Safety Program, including the update of the National Inventory of Dams (NATDAM).
6. To develop state-of-the-art computer capabilities for engineering analysis of dams, and the Dam Safety Program.
7. Provide training when necessary and encourage teamwork.

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WORK ITEMS FOR 1992

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