

RICHARD D. LAMM
Governor



JERIS A. DANIELSON
State Engineer

DIVISION OF WATER RESOURCES

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January 16, 1984

Dr. Jeris A. Danielson
State Engineer
1313 Sherman St., Room 818
Denver, Colorado 80203

Dear Dr. Danielson:

Enclosed is the 1983 IYR Division Engineer's Report for Division 7. We have included those items that you outlined and have added additional information in the appendix which was used in preparing the report.

Sincerely,

Daries C. Lile
Division Engineer

DCL:alf
Enclosure

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Water Admin.

WATER ADMINISTRATION

A. CURRENT WATER YEAR

The past year required the administration of the La Plata, Mancos, and Florida Rivers. As a result of the record water year, all other streams had sufficient supplies and it was not necessary to curtail diversions. We were also able to maintain accurate diversion records on the streams that were not administered. The office work is up to date with respect to mapping, decrees, tabulation and water court consultations.

The accomplishments for the year include administration of the La Plata River Compact without conflict with the New Mexico users; the assumption of the lead role in the measurements and computations of records of the bypass requirements on the San Juan-Chama Project, and the complete inspection of all reservoirs by the water commissioners.

We reorganized deputy water commissioner positions on the Pine and Florida Rivers by combining man-months which was previously allocated for the Navajo River and the San Juan-Chama Project, with man-months that had been used on the lower Pine River to establish a deputy commissioner position to work the upper Pine River and the Florida River. This area is where most of the subdivisions are occurring and consequently, several plans of augmentation have been decreed which are requiring more detailed administration of the streams.

As a result of dam inspections, repair work was ordered on Summit and Bauer No. 2 Reservoirs with restrictions imposed until the work is completed. Summit Reservoir has completed the plugging of an old outlet and has proposed plans for the improvement of the embankment leaks. Bauer No. 2 Reservoir has completed the work requested which included the removal of several old tree stumps as well as installed a drain on the left side of the reservoir near the outlet.

Buck Pasture Reservoir in District 71 failed during the high spring runoff. Continuing flows through the earth spillway caused erosion to reach the basin of the reservoir. Through the action of the water commissioners the reservoir was prevented from total failure. The spillway was covered with plastic and sandbags placed to control the erosion. There was also a slip on the downstream toe. At the present time, the reservoir is drained and no storage is being allowed.

Totten Reservoir in District 32 developed cracks in the embankment. After careful excavating it was determined that they were the result of drying out of the embankment material. The cracks were excavated and recompacted this spring before allowing storage. Monuments were also placed on the dam to observe any structural movements.

Involvement with the water user community included attending all conservancy district and ditch meetings as requested. Several presentations were made concerning dam safety. They included: Southwest Colorado Water Conservation Board seminar in Pagosa Springs, Soil Conservation Service in Norwood, and Public Works Seminar held in Durango. The Southwest Colorado Water Conservancy Board meetings were attended and reports given as to the status of stream flows and general water administration. The Colorado Water Conservation Board and Colorado Water and Power Resources Board held meetings in the Division and both were attended.

The Southwest Interagency Resource Council meetings were participated in

aiding in development of communication between federal and state agencies. The Civil Defense organizations for the various counties were consulted with during the spring runoff period. Additionally, we have been meeting and working with the U.S.B.R. in the development of administration procedures for the Dolores Project and the operation of McPhee Reservoir.

There have been several meetings in Pagosa Springs in an attempt to resolve the Geothermal problems. At present, the town is operating the system under a temporary permit to allow for further testing. The new Geothermal Act which was passed this past legislative session, allows for the formation of a management district, which may aid in resolving the conflict.

Issues which impacted the Division during the past year included: dam safety, geothermal resources, subdivisions, and conversion of water rights to municipal and commercial uses. These issues have been addressed as time and manpower allow. We could utilize additional staff in the area of dam safety and subdivisions for improving our ability to address these problems timely.

We were able to address water administration problems fairly adequately, however, areas that are not being solved on a year-to-year basis involve enforcement of rules and regulations pertaining to well drillers and pump installers. Part of the problem is a result of the poor construction of laws pertaining to regulation, and the other involves the lack of man hours available to adequately enforce the regulations.

The workload changes that are occurring relate to small wells and the administration of plans of augmentation. There is a lot of activity and public contact involving the issuing of domestic, in house use only, and municipal wells. Although the groundwater supplies are marginal in some areas of the Division, the counties will plat the subdivision if the state allows wells.

The reduction in Budget allocations last year severely restricted our travel and operating expenditures during the winter months. Consequently, poor records were obtained for those periods and winter programs were curtailed as a result. Work on mapping and aerial photos was not completed as planned. It is very difficult to keep a program running and finish work timely when funds are not available. There were also reduced travel allocations during April, May and June, which resulted in fewer observations being made. Repairs were delayed on state vehicles which will eventually result in shorter life of vehicles and require replacement sooner.

B. COMING YEAR

The upcoming water year will be impacted by the reopening of litigation on the Indian Claims. It is anticipated that the U.S. Department of Justice will resume efforts on having the case heard in the Division 7 Court. Presently, the Colorado Attorney General's Office is preparing field data through the use of consultants with respect to land classification and agronomy.

The Dolores Project is nearing completion and it is anticipated that storage will begin in the spring of 1984 in McPhee. We have been meeting with the Dolores Conservancy District and the U.S.B.R. to aid in establishing an operating criteria for the delivery of project water as well as to insure that existing rights are handled properly.

The Animas-La Plata Project may receive construction funding from Congress in 1984, however this should not significantly affect the workload until 1985.

An abandonment list is being prepared by the Division staff, and it will be published along with the 1984 tabulation. Depending upon the number of water rights that are abandoned and what criteria was utilized will determine if there is an additional workload placed on the staff.

Projected work items for the winter of 1983-1984 include: preparation of an abandonment list, completion and publication of the 1984 tabulation, update aerial photos and maps, compile a division-wide index of structures by location, review the computer program utilized in accounting for water in District 31 (Pine River), and aid Division 5 in preparing their tabulation.

The priorities and goals for the upcoming year are to: administer all streams as required, prepare tabulation and abandonment list, conduct dam safety inspections, complete winter work projects, begin training replacements for retiring water commissioners, upgrade three personnel positions, and replace two state vehicles.

II. RECOMMENDATIONS

In Division 7 we are able to accomplish both surface and groundwater administration without undue conflict. This is in part due to the excellent cooperation of the Water Court and the general public. We could improve upon our ability to resolve groundwater and surface water conflicts and as a result of a recent Supreme Court decision in the San Luis Valley, we may now have the tools to accomplish the task of integrating groundwater and surface water to maximize the beneficial uses of the waters of the state of Colorado.

The past year has seen considerable activity revolving around dam safety. It would be helpful for the Divisions, if inspectors were located in the field; if reports were sent out timely after the inspections, and if follow-through on inspections were done to insure compliance. It has been our experience that only through personal contact with the owners and explaining of the need for the repairs the necessary work has been accomplished. The inspectors should have the ability to meet with the owners, explain the problems, and make decisions that can expedite the upgrading of structures. The dam safety film and workshop which was presented to the water commissioners was excellent. It is suggested that a copy of the presentation be placed in the Division offices so that it could be made available and shown to reservoir owners by Division personnel.

It is anticipated that there will be three water commissioner retirements during the upcoming water year. It would be quite helpful if monies were available to train replacements for these commissioners prior to their retirement. The budget should be constructed in such a manner as to allow for extra funds for the purpose of training new employees. Additionally, monies need to be made available for the replacement of state vehicles. Presently, the policy is that if a vehicle has a high cost of operating it will be replaced, however, you have to spend the money to show that it is costing too much to operate, then you can replace it. This seems to be somewhat ridiculous; generally we can predict when a vehicle is going to need major repairs and the money should be used to buy a new vehicle rather than fix the old one.

As was earlier discussed in this report, activity is increasing on the Indian Reserved Claims. The pending litigation will be quite expensive to the state and it would seem that it may be possible to resolve the problem through negotiation and settlement as the Dolores Project and Animas-La Plata Project are constructed. The Indians have indicated that they are willing to evaluate the possibility of settlement if they receive a share of the water allocated in those projects. However, it does not appear that anyone is making an effort to obtain a formal commitment from the Indians. This should be done before water is delivered from either project.

With respect to the Indian litigation, the Attorney General's Office is making a rather extensive evaluation of the potential irrigated acres. It will be important to know what the water requirements are, and at this time there has been no information obtained through the collection of data from lysimeters. It is our opinion that it will be appropriate to conduct such a study. The information obtained would be valuable in calibrating the consumptive use equations, and could be applied to plans of augmentation and Colorado's uses in accordance with the Upper Basin Compact.

Statistic Info

TRANSMOUNTAIN DIVERSIONS SUMMARY

		RECEIPIENT					SOURCE		
ID	NAME	STREAM	PREVIOUS YEAR		IYR OF RECORD		W.D.	STREAM	
			A.F.	DAYS	A.F.	DAYS			
20	Treasure Pass Ditch	Rio Grande	388	64	450	75	29	San Juan River	
68	Carbon Lake Ditch	Uncompahgre River	526	98	0	0	30	Animas River	
68	Red Mountain Ditch	Uncompahgre River	0	0	0	0	30	Animas River	
20	Pine River-Weminuche Pass D.	Rio Grande	614	47	803	111	31	Pine River	
20	Weminuche Pass Ditch	Rio Grande	1,580	50	2,020	106	31	Pine River	
20	Williams Creek-Squaw Pass D.	Rio Grande	144	36	149	56	78	Piedra River	
20	Don LaFont #1 (S. River Peak Ditch)	Rio Grande	79	21	0	0	78	Piedra River	
20	Don LaFont #2 (Piedra Pass Ditch)	Rio Grande	130	22	0	0	78	Piedra River	

RESERVOIR STORAGE SUMMARIES

D	RESERVOIR NAME	STREAM SOURCE	PREVIOUS IYR			IYR OF RECORD					
			BEG. IYR A.F.	Beg. Irr. Season %	A.F.	BEG. IYR A.F.	BEG. IRR. SEASON %	END IYR A.F.			
29	ECHO CANYON RESERVOIR	ECHO CREEK	2,149	100	2,149	100	1,500	70	2,149	100	2,149
29	HARRIS BROS & BOONE	BLANCO RIVER	206	100	206	100	206	100	206	100	146
29	TOTAL ALL OTHERS		178	100	178	100	178	100	178	100	176
		TOTALS	2,533		2,533		1,884		2,533		2,471
30	CASCADE RESERVOIR	CASCADE CREEK	2,373	10	23,385	100	20,332	98	22,802	98	21,560
30	DURANGO REGULATORY	FLORIDA RIVER	217	100	217	100	217	100	217	100	217
30	JOHNSON RESERVOIR	LA PLATA RIVER	1,000	88	1,000	88	1,136	100	1,136	100	980
30	LEMON RESERVOIR	FLORIDA RIVER	25,000	62	40,264	100	29,836	74	40,121	100	25,400
	TOTAL ALL OTHERS		1,978	60	3,026	91	3,051	92	3,179	96	2,853
		TOTALS	30,568		67,892		54,572		67,455		51,010
31	VALLECITO RESERVOIR	PINE RIVER	53,193	41	123,081	95	93,613	72	123,919	96	60,564
31	WOMMER RESERVOIR	BEAR CREEK	78	38	186	89	148	71	208	100	180
31	TOTAL ALL OTHERS		48	80	60	100	48	80	48	100	46
		TOTALS	53,319		123,327		93,809		124,175		60,790

RESERVOIR STORAGE SUMMARIES

ID	RESERVOIR NAME	STREAM SOURCE	PREVIOUS IYR		IYR OF RECORD				
			BEG. IYR A.F.	Beg. Irr. Season %	BEG. IYR A.F.	BEG. IRR. SEASON %			
32	A.M. PUETT RESERVOIR	DOLORES RIVER	377	16	911	39	2,323	100	1,882
32	NARRAGUINNEP RESERVOIR	DOLORES RIVER	16,155	85	12,358	65	18,960	100	10,353
32	TOTTEN RESERVOIR	DOLORES RIVER	1,755	53	1,856	56	3,302	100	1,754
32	TOTAL ALL OTHERS		153	82	137	74	185	100	137
		TOTALS	18,440		15,262		24,770		14,126
33	RED MESA WARD RES.	LA PLATA RIVER	240	20	669	57	1,176	100	404
33	TOTAL ALL OTHERS		86	100	86	100	86	100	86
		TOTALS	326		755		1,262		490
34	BAUER RESERVOIR NO. 1	CRYSTAL CREEK	54	15	177	50	357	100	24
34	BAUER RESERVOIR NO. 2	CHICKEN CREEK	379	25	1,239	81	1,533	100	1,054
34	JACKSON GULCH RESERVOIR	MANCOS RIVER	4,882	49	5,666	57	9,871	99	5,854
34	SELLARS & MC CLANE RES.	MUD CREEK	12	23	17	33	52	100	7
34	WEBER RESERVOIR	MIDDLE FK. MANCOS	123	28	337	76	442	100	337
34	TOTAL ALL OTHERS		31	23	69	52	124	94	63
		TOTALS	5,481		7,505		12,379		7,339

RESERVOIR STORAGE SUMMARIES

ID	RESERVOIR NAME	STREAM SOURCE	PREVIOUS IYR		IYR OF RECORD				
			BEG. IYR A.F.	Beg. Iyr. Season %	BEG. IYR A.F.	BEG. IRR. SEASON %			
69	BELMAR LAKE RESERVOIR	RINCONE CREEK	326	80	408	100	408	100	300
69	MORRISON RESERVOIR	MORRISON CREEK	95	82	116	100	116	100	94
69	TOTAL ALL OTHERS		106	82	129	100	129	100	120
		TOTALS	527		653		653		514
71	BIG PINE RESERVOIR	LOST CANYON CREEK	407	88	460	100	209	45	309
71	GROUNDHOG RESERVOIR	GROUNDHOG CREEK	2,440	11	20,397	94	15,006	69	14,280
71	SUMMIT RESERVOIR	LOST CANYON CREEK	600	12	4,795	94	1,852	36	1,730
71	TOTAL ALL OTHERS		168	64	262	100	227	87	149
		TOTALS	3,615		25,914		17,294		16,468
77	SAPPINGTON RESERVOIR	COYOTE CREEK	0	0	500	100	117	23	94
77	SPENCE RESERVOIR	COYOTE CREEK	441	100	441	100	441	100	322
77	TOTAL ALL OTHERS		25	100	25	100	25	100	25
		TOTALS	466		966		583		441

RESERVOIR STORAGE SUMMARIES

ID	RESERVOIR NAME	STREAM SOURCE	PREVIOUS IYR		IYR OF RECORD						
			BEG. IYR A.F.	Beg. Irr. Season %	BEG. IYR A.F.	BEG. IRR. SEASON %	END IYR A.F.				
78	G.S. HATCHER RESERVOIR	STOLLSTEIMER CREEK	1,260	72	1,735	100	1,462	84	1,735	100	1,700
78	LAKE FOREST RESERVOIR	STOLLSTEIMER CREEK	400	80	400	80	435	87	500	100	500
78	LINN & CLARK RESERVOIR	DUTTON CREEK	997	100	997	100	997	100	997	100	997
78	PARGIN RESERVOIR	STOLLSTEIMER CREEK	530	100	530	100	453	85	453	85	453
78	STEVENS RESERVOIR	DUTTON CREEK	635	100	635	100	635	100	635	100	635
78	TOWN CENTER RESERVOIR	STOLLSTEIMER CREEK	400	67	600	100	600	100	600	100	600
78	WILLIAMS CREEK RES.	WILLIAMS CREEK	10,084	100	10,084	100	10,084	100	10,084	100	10,084
78	TOTAL ALL OTHERS		432	90	478	100	306	64	316	66	237
		TOTALS	14,738		15,459		14,972		15,320		15,206

WATER DIVERSION SUMMARIES BY DISTRICT

WD	TOTAL DITCHES REPORTING *				ESTIMATED NUMBER OF VISITATIONS	TOTAL DIVERSIONS - AF-	TOTAL DIVERSIONS TO STORAGE - AF -	TOTAL DIVERSIONS - AF -	IRRIGATION	
	ACTIVE		INACTIVE						NUMBER OF ACRES IRRIGATED	AVERAGE AF PER ACRE
	WA	NWA	NU	NR						
29	231	1	53	24	4,082	100,378	0	43,680	12,828	3.41
30	652	12	209	17	8,273	246,203	35,152	135,748	33,794	4.02
31	335	0	52	0	20,337	381,121	71,061	300,694	56,976	5.28
32	220	1	36	0	4,296	183,234	12,247	163,681	41,629	3.93
33	96	0	26	14	3,903	52,346	847	44,664	11,342	3.94
34	91	1	13	1	951	56,047	3,633	46,675	11,811	3.95
46	38	0	0	0	808	6,628	0	5,892	1,768	3.33
69	12	0	17	0	206	3,218	0	3,216	1,386	2.32
71	85	1	79	5	1,528	145,534	8,601	3,043	1,490	2.04
77	95	0	20	0	1,754	109,348	134	23,056	4,076	5.66
78	116	5	35	10	2,268	29,547	2,148	25,256	7,998	3.16
	2,375	21	540	71	48,406	1,313,604	133,823	795,605	185,098	4.30
<p>*Total number of structures reported on in Division 7 including ditches, reservoirs, wells and springs.</p>										

WATER DIVERSION SUMMARIES BY DISTRICT IN ACRE FEET (Continued)

WD	TRANS- MTN. OUTFLOW	TRANS- BASIN OUTFLOW	STOCK	MUN.	DOMES.	INDUS.	REC.	FISH	COMMER.	OTHER	COMPACT
29	450	2,609	4,175	576	285			2,700	237		45,666 <u>2/</u>
30			9,345	5,371	196	42,050	1,119	7,785	450	313	8,674
31	2,823		4,788	660	43		152	869	31		
32			4,901	2,319	16	4		12	6	48	
33			4,930		23				7	5	1,870
34			4,791	919	19				10		
46			1				735				
69					2						
71	130,403 <u>1/</u>		216	1,685	313	1,203		48	22		
77			1,232		9	1		9,454	26		75,436 <u>3/</u>
78		149	1,453	331	139				71		
	133,676	2,758	35,832	11,861	1,045	43,257	2,006	20,868	860	366	131,646
	<u>1/</u> Diverted from W.D. 71 to W.D. 32 through M.V.I. & Summit Systems										
	<u>2/</u> Diverted through San Juan-Chama Project to New Mexico										
	<u>3/</u> Diverted through San Juan-Chama Project to New Mexico										

WATER COURT ACTIVITIES

NUMBER OF APPLICATIONS FOR DECREES	170
NUMBER OF CONSULTATIONS WITH REFEREE	184
NUMBER OF DECREES ISSUED BY WATER COURT	150

TYPE OF DECREE:

SURFACE WATER	42
GROUND WATER	39
RESERVOIR	19
TRANSFER]
]
ALTERNATE POINT]
]
CHANGE IN USE]
PLAN FOR AUGMENTATION	9
IN-STREAM FLOW	9
OTHER	25

NUMBER OF STRUCTURES IN DECREES

TYPES OF STRUCTURES

DITCHES	62
RESERVOIRS	19
WELLS	47
OTHER	25

NOTE: During calendar year 1983, there were seventeen cases filed involving replacement or exchange for augmentation purposes.

OFFICE ADMINISTRATION FY 1983

<u>NAME</u>	<u>POSITION</u>	<u>FISCAL YEAR</u>		<u>FISCAL YEAR</u>
		<u>MONTHS BUDGETED/</u>	<u>WORKED</u>	
DARIES C. LILE	DIVISION ENGINEER	12	12	903 P 7,346 S*
KENNETH A. BEEGLES	ASSISTANT DIVISION ENGINEER	12	12	764 P S*
SCOTT D. BRINTON	HYDROGRAPHER	12	12	15,168 S
ANN-LOUISE FAUTH	SECRETARY	12	12	

FULL-TIME EMPLOYEES IN FIELD

<u>NAME</u>	<u>POSITION</u>	<u>DISTRICT</u>	<u>FISCAL YEAR</u>		<u>FISCAL YEAR</u>
			<u>MONTHS BUDGETED/</u>	<u>WORKED</u>	<u>MILEAGE</u>
WILLIAM E. BAKER	WATER COMM. B	32	12	12	9,394 P
E. IVAN DANIELSON	WATER COMM. C	30	12	12	7,009 P
GEORGE E. DAVIS	WATER COMM. C	30	12	12	7,874 P 1,681 S
GLEN E. HUMISTON	WATER COMM. C	32,34,69,71	12	12	14,135 S
J. RUSSELL KENNEDY	WATER COMM. C	33	12	12	11,070 P
WILLIAM P. LYNN	WATER COMM. C	29,77,78	12	12	6,293 P
LARRY NIELSEN	WATER COMM. B	77	12	12	8,658 P
AVRIT G. SPARKS ^{1/}	WATER COMM. C	31,46	12	9	6,423 P
WILFORD E. SPEER	WATER COMM. C	69,71	12	12	12,194 P

PERMANENT PART-TIME EMPLOYEES IN FIELD

ROY M. BROWN, JR.	WATER COMM. B	29,78	8.0	7.6	9,628 P
LAWRENCE J. SHOCK ^{2/}	WATER COMM. C	31,46	9.0	12	10,961 P
JOHN J. TAYLOR	WATER COMM. A	78	4.0	3.1	2,228 P
RICHARD G. BALTZELL ^{3/}	CONTRACT LABOR	30,31	<u>3.0</u>	<u>3.0</u>	<u>1,944 P</u>

TOTALS			183.0	175.7	109,478 P <u>38,330 S</u>
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TOTAL MILEAGE FOR PERIOD					<u>147,808</u>
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1/ Avrit G. Sparks retired March, 1983

2/ Lawrence Shock filled Sparks position with promotion to Water Comm. C as of May 1, 1983

3/ Richard Blatzell hired to help in Dist. 30, 31 - not on regular payroll yet
Mileage up by 11,591 even with budget crunch

* Ford Maverick used by Assistant Division Engineer, and visiting dam inspectors when in the area

LA PLATA RIVER COMPACT MONTHLY SUMMARY IN ACRE FEET

MONTH	HESPERUS STATION	LA PLATA & CHERRY CR. DITCH	PINE RIDGE DITCH	HESPERUS TOTAL	STATE LINE STATION	ENTERPRISE		PIONEER DITCH	DELIVERED STATE LINE TOTAL	REQUIRED DELIVERY 1/2 HESPER. STATION
						DITCH (N. MEX.)	DITCH			
DEC. 1982	627			627	1,020				1,020	
JANUARY	511			511	986				986	
FEBRUARY	487			487	1,530				1,530	
MARCH	1,090			1,090	4,200				4,200	
APRIL	2,690			2,690	11,470	16	49		11,540	
MAY	12,500	5.5	353	12,860	16,000	202	254		16,460	
JUNE	18,140	701	610	19,450	9,130	210	330		9,670	
JULY	5,640	1,450	494	7,580	3,740	161	284		4,200	2,970 ^{1/}
AUGUST	1,800	237	20	2,060	1,010	128	84		1,220	1,060 ^{2/}
SEPTEMBER	735			735	331	74	38		443	358
OCTOBER	1,410			1,410	887	21	41		949	718
NOVEMBER	642			642	1,030		108		1,140	326
TOTALS	46,272	2,393.5	1,477	50,142	51,334	812	1,188		53,358	5,432

1/ New Mexico requested 90 c.f.s. July 5, 1983

2/ Upper river flows totally diverted - return flows meeting Compact requirements

PLANS FOR AUGMENTATION

UPDATE FOR YEAR 1983

Water Court Case #	Name	Water Dist.	Stream	Amount of Water to be Released (AF or cfs)	Time of Release	Brief Statement of Plan
83CW10	Roberts Well, Culhane Hills W-1286-74, McCluer & Murray D	30	Florida R.	.80 A.F. Consump.		Replace consumptive use of well through leaving historic water in stream.
83CW15	Beaver Creek Well No. 2	31	Pine River	Exchange		Exchange with Vallecito Res.
83CW16	Beaver Creek Well No. 4	31	Pine River	Exchange		Exchange with Vallecito Res.
83CW17	Beaver Creek Well No. 3	31	Pine River	Exchange		Exchange with Vallecito Res.
83CW19	Rancho Durango aka Edgemont Ranch, Spring Valley Lake	30	Florida R.	124.6 A.F. .25 c.f.s. .33 c.f.s.		Reservoir to make releases and direct flow water to be used for replacement by equating historic use to new uses.
83CW23	James F. Ellis, McClure & Murray D., D-K Subdiv. W-1287	30	Florida R.	.06 A.F. Consum.		Historic use equated to new use
83CW24	Varis Wells #1, #2, McClure & Murray D., D-K Sub. W-1287	30	Florida R.	.38 A.F. consump.		Historic use equated to new use.
83CW41	Camp Silver Spruce, Blodgett Westside & Eastside Ditches	30	Florida R.	.334 c.f.s. .167 c.f.s.		Historic use equated to new use.
83CW42	Los Ranchitos Sub. Blodgett Westside & Eastside Ditches	30	Florida R.	.28 c.f.s. .14 c.f.s.		Historic use equated to new use.

P L A N S F O R A U G M E N T A T I O N

UPDATE FOR YEAR 1983

Water Court Case #	Name	Water Dist.	Stream	Amount of Water to be Released (AF or cfs)	Time of Release	Brief Statement of Plan
83CW43	Country Aire Estates, JoAnn Connell, Blodgett Westside & Eastside Ditches	30	Florida R.	.053 c.f.s. .027 c.f.s.		Historic use equated to new uses
83CW50	Janice Brown, McCluer & Murray Ditch, D-K Sub. W-1287	30	Florida R	.50 A.F. consump.		Historic use is equated to new uses.
83CW69	R. A. Stacey, Stacey Subdiv.	32	McElmo R	.37 A.F.		Storage release from reservoir for replace depletions
83CW76	T.C. Honey, Honey Pond & Well	34	Mancos R	6.0 A.F.		Storage release from reservoir to replace depletions
83CW83	Richard Vick	31	Pine R.			Exchange with Vallecito Res.
83CW97	Francis Diade	33	LaPlata R	1.0 A.F.		Storage release from Red Ward Reservoir to replace pumping
83CW119	Shenandoah, Ltd.	33	LaPlata R	.009625 c.f.s.		Leave water in the stream to replace depletions caused by pumping, historic use equated to new uses.

Appendix

WATER COMMISSIONER'S SUMMARY

WATER DISTRICT 29

<u>DIRECT DIVERSIONS</u>	<u>ACPE FEET</u>
IRRIGATION	43,444
STORAGE	
STOCKWATER	4,175
MUNICIPAL	576
DOMESTIC	285
INDUSTRIAL	
RECREATIONAL	
FISH	2,210
OTHER: commercial includes some geothermal	237
TRANSMOUNTAIN-TRANSBASIN	3,059
INTERSTATE	45,666
TOTAL DIVERSIONS	<u>99,652</u>
<u>DELIVERIES FROM STORAGE</u>	
IRRIGATION	236
DOMESTIC	
MUNICIPAL	
STOCK	
INDUSTRIAL	
RECREATIONAL	
TRANSBASIN-TRANSMOUNTAIN	
OTHER: Fish	490
TOTAL FROM STORAGE	<u>726</u>
<u>DELIVERIES FROM TRANSBASIN</u>	
IRRIGATION	
STORAGE	
MUNICIPAL	
TOTAL FROM TRANSBASIN	
<u>DUTY OF WATER:</u>	
TOTAL TO IRRIGATION	43,680
ACRES IRRIGATED	12,828
ACRE FEET DIVERTED PER ACRE	3.41
<u>NUMBER OF STRUCTURES OBSERVED</u>	
WATER RUN - NO INFORMATION AVAILABLE (E Code)	18
ACTIVE DIVERSIONS - DAILY*	154
INFREQUENT	77
INACTIVE DIVERSIONS - NO WATER AVAILABLE (Code B)	1
NOT USED (A,C,D Code)	53
NO INFORMATION AVAILABLE (F Code)	6
NUMBER OF DITCHES	230
NUMBER OF RESERVOIRS	36
NUMBER OF WELLS	43
NUMBER OF OBSERVATIONS	<u>4,082</u>

*Ditches which show no use but had been observed may not be included here.

WATER COMMISSIONER'S SUMMARY

WATER DISTRICT 30

<u>DIRECT DIVERSIONS</u>	<u>ACPE FEET</u>
IRRIGATION	130,329
STORAGE	35,152
STOCKWATER	8,651
MUNICIPAL	5,371
DOMESTIC	196
INDUSTRIAL	22,717
RECREATIONAL	1,119
FISH	7,785
OTHER: Commercial, recharge	763
TRANSMOUNTAIN-TRANSBASIN	
INTERSTATE	8,674
TOTAL DIVERSIONS	<u>220,757</u>
<u>DELIVERIES FROM STORAGE</u>	
IRRIGATION	6,082
DOMESTIC	
MUNICIPAL	
STOCK	694
INDUSTRIAL	19,333
RECREATIONAL	
TRANSBASIN-TRANSMOUNTAIN	
OTHER:	
TOTAL FROM STORAGE	<u>26,109</u>
<u>DELIVERIES FROM TRANSBASIN</u>	
IRRIGATION	
STORAGE	
MUNICIPAL	
TOTAL FROM TRANSBASIN	
<u>DUTY OF WATER:</u>	
TOTAL TO IRRIGATION	135,748
ACRES IRRIGATED	33,794
ACRE FEET DIVERTED PER ACRE	4.02
<u>NUMBER OF STRUCTURES OBSERVED</u>	
WATER RUN - NO INFORMATION AVAILABLE (E Code)	11
ACTIVE DIVERSIONS - DAILY*	221
INFREQUENT	431
INACTIVE DIVERSIONS - NO WATER AVAILABLE (Code B)	12
NOT USED (A,C,D Code)	209
NO INFORMATION AVAILABLE (F Code)	6
NUMBER OF DITCHES	553
NUMBER OF RESERVOIRS	49
NUMBER OF WELLS	288
NUMBER OF OBSERVATIONS	<u>8,273</u>

*Ditches which show no use but had been observed may not be included here.

WATER COMMISSIONER'S SUMMARY

WATER DISTRICT 31

<u>DIRECT DIVERSIONS</u>	<u>ACPE FEET</u>
IRRIGATION	238,491
STORAGE	71,061
STOCKWATER	4,787
MUNICIPAL	589
DOMESTIC	43
INDUSTRIAL	
RECREATIONAL	152
FISH	869
OTHER: Commercial	31
TRANSMOUNTAIN-TRANSBASIN	2,823
INTERSTATE	
	<hr/>
TOTAL DIVERSIONS	<u>318,846</u>
<u>DELIVERIES FROM STORAGE</u>	
IRRIGATION	62,203
DOMESTIC	
MUNICIPAL	71
STOCK	1
INDUSTRIAL	
RECREATIONAL	
TRANSBASIN-TRANSMOUNTAIN	
OTHER:	
	<hr/>
TOTAL FROM STORAGE	<u>62,275</u>
<u>DELIVERIES FROM TRANSBASIN</u>	
IRRIGATION	
STORAGE	
MUNICIPAL	
	<hr/>
TOTAL FROM TRANSBASIN	<hr/>
<u>DUTY OF WATER:</u>	
TOTAL TO IRRIGATION	300,694
ACRES IRRIGATED	56,976
ACRE FEET DIVERTED PER ACRE	5.28
<u>NUMBER OF STRUCTURES OBSERVED</u>	
WATER RUN - NO INFORMATION AVAILABLE (E Code)	
ACTIVE DIVERSIONS - DAILY*	115
INFREQUENT	220
INACTIVE DIVERSIONS - NO WATER AVAILABLE (Code B)	
NOT USED (A,C,D Code)	52
NO INFORMATION AVAILABLE (F Code)	
NUMBER OF DITCHES	18
NUMBER OF RESERVOIRS	255
NUMBER OF WELLS	114
NUMBER OF OBSERVATIONS	20,337

*Ditches which show no use but had been observed may not be included here.

WATER COMMISSIONER'S SUMMARY

WATER DISTRICT 32

<u>DIRECT DIVERSIONS</u>	<u>ACFE FEET</u>
IRRIGATION	42,462
STORAGE	48
STOCKWATER	289
MUNICIPAL	
DOMESTIC	16
INDUSTRIAL	4
RECREATIONAL	
FISH	12
OTHER: Commercial	54
TRANSMOUNTAIN-TRANSBASIN	
INTERSTATE	
TOTAL DIVERSIONS	<u>42,886</u>
<u>DELIVERIES FROM STORAGE</u>	
IRRIGATION	14,476
DOMESTIC	
MUNICIPAL	
STOCK	698
INDUSTRIAL	
RECREATIONAL	
TRANSBASIN-TRANSMOUNTAIN	
OTHER:	
TOTAL FROM STORAGE	<u>15,174</u>
<u>DELIVERIES FROM TRANSBASIN</u>	
IRRIGATION	106,743
STORAGE	1,2199
MUNICIPAL	2,319
STOCK	3,914
TOTAL FROM TRANSBASIN	<u>125,175</u>
<u>DUTY OF WATER:</u>	
TOTAL TO IRRIGATION	163,681
ACRES IRRIGATED	41,629
ACRE FEET DIVERTED PER ACRE	3.93
<u>NUMBER OF STRUCTURES OBSERVED</u>	
WATER RUN - NO INFORMATION AVAILABLE (E Code)	
ACTIVE DIVERSIONS - DAILY*	171
INFREQUENT	49
INACTIVE DIVERSIONS - NO WATER AVAILABLE (Code B)	1
NOT USED (A,C,D Code)	36
NO INFORMATION AVAILABLE (F Code)	
NUMBER OF DITCHES	10
NUMBER OF RESERVOIRS	228
NUMBER OF WELLS	19
NUMBER OF OBSERVATIONS	<u>4,296</u>

*Ditches which show no use but had been observed may not be included here.

WATER COMMISSIONER'S SUMMARY

WATER DISTRICT 33

<u>DIRECT DIVERSIONS</u>	<u>ACPE FEET</u>
IRRIGATION	43,891
STORAGE	847
STOCKWATER	4,926
MUNICIPAL	
DOMESTIC	23
INDUSTRIAL	
RECREATIONAL	
FISH	
OTHER: Commercial	12
TRANSMOUNTAIN-TRANSBASIN	
INTERSTATE	1,870
TOTAL DIVERSIONS	<u>49,699</u>
<u>DELIVERIES FROM STORAGE</u>	
IRRIGATION	773
DOMESTIC	
MUNICIPAL	
STOCK	4
INDUSTRIAL	
RECREATIONAL	
TRANSBASIN-TRANSMOUNTAIN	
OTHER:	
TOTAL FROM STORAGE	<u>777</u>
<u>DELIVERIES FROM TRANSBASIN</u>	
IRRIGATION	
STORAGE	
MUNICIPAL	
TOTAL FROM TRANSBASIN	
<u>DUTY OF WATER:</u>	
TOTAL TO IRRIGATION	44,664
ACRES IRRIGATED	11,342
ACRE FEET DIVERTED PER ACRE	3.94
<u>NUMBER OF STRUCTURES OBSERVED</u>	
WATER RUN - NO INFORMATION AVAILABLE (E Code)	
ACTIVE DIVERSIONS - DAILY*	41
INFREQUENT	55
INACTIVE DIVERSIONS - NO WATER AVAILABLE (Code B)	
NOT USED (A,C,D Code)	26
NO INFORMATION AVAILABLE (F Code)	14
NUMBER OF DITCHES	101
NUMBER OF RESERVOIRS	9
NUMBER OF WELLS	26
NUMBER OF OBSERVATIONS	<u>3,903</u>

*Ditches which show no use but had been observed may not be included here.

WATER COMMISSIONER'S SUMMARY

WATER DISTRICT 34

<u>DIRECT DIVERSIONS</u>	<u>ACFE FEET</u>
IRRIGATION	41,769
STORAGE	3,633
STOCKWATER	4,789
MUNICIPAL	820
DOMESTIC	10
INDUSTRIAL	
RECREATIONAL	
FISH	
OTHER: Commercial	2
TRANSMOUNTAIN-TRANSBASIN	
INTERSTATE	
TOTAL DIVERSIONS	<u>51,032</u>
<u>DELIVERIES FROM STORAGE</u>	
IRRIGATION	3,994
DOMESTIC	
MUNICIPAL	99
STOCK	2
INDUSTRIAL	
RECREATIONAL	
TRANSBASIN-TRANSMOUNTAIN	
OTHER: Commercial	8
TOTAL FROM STORAGE	<u>4,103</u>
<u>DELIVERIES FROM TRANSBASIN</u>	
IRRIGATION	912
STORAGE	
MUNICIPAL	
TOTAL FROM TRANSBASIN	<u>912</u>
<u>DUTY OF WATER:</u>	
TOTAL TO IRRIGATION	46,675
ACRES IRRIGATED	11,811
ACRE FEET DIVERTED PER ACRE	<u>3.95</u>
<u>NUMBER OF STRUCTURES OBSERVED</u>	
WATER RUN - NO INFORMATION AVAILABLE (E Code)	1
ACTIVE DIVERSIONS - DAILY*	75
INFREQUENT	16
INACTIVE DIVERSIONS - NO WATER AVAILABLE (Code B)	1
NOT USED (A,C,D Code)	13
NO INFORMATION AVAILABLE (F Code)	
NUMBER OF DITCHES	88
NUMBER OF RESERVOIRS	10
NUMBER OF WELLS	8
NUMBER OF OBSERVATIONS	<u>951</u>

*Ditches which show no use but had been observed may not be included here.

WATER COMMISSIONER'S SUMMARY

WATER DISTRICT 46

DIRECT DIVERSIONS

IRRIGATION

ACPE FEET

5,891

STORAGE

1

STOCKWATER

MUNICIPAL

DOMESTIC

INDUSTRIAL

RECREATIONAL

735

FISH

OTHER:

TRANSMOUNTAIN-TRANSBASIN

INTERSTATE

TOTAL DIVERSIONS

6,630

DELIVERIES FROM STORAGE

IRRIGATION

1

DOMESTIC

MUNICIPAL

STOCK

INDUSTRIAL

RECREATIONAL

TRANSBASIN-TRANSMOUNTAIN

OTHER:

TOTAL FROM STORAGE

1

DELIVERIES FROM TRANSBASIN

IRRIGATION

STORAGE

MUNICIPAL

TOTAL FROM TRANSBASIN

DUTY OF WATER:

TOTAL TO IRRIGATION

5,892

ACRES IRRIGATED

1,768

ACRE FEET DIVERTED PER ACRE

3.33

NUMBER OF STRUCTURES OBSERVED

WATER RUN - NO INFORMATION AVAILABLE (E Code)

ACTIVE DIVERSIONS - DAILY*

37

INFREQUENT

1

INACTIVE DIVERSIONS - NO WATER AVAILABLE (Code B)

NOT USED (A,C,D Code)

NO INFORMATION AVAILABLE (F Code)

NUMBER OF DITCHES

37

NUMBER OF RESERVOIRS

1

NUMBER OF WELLS

NUMBER OF OBSERVATIONS

808

*Ditches which show no use but had been observed may not be included here.

WATER COMMISSIONER'S SUMMARY

WATER DISTRICT 69

<u>DIRECT DIVERSIONS</u>	<u>ACRE FEET</u>
IRRIGATION	<u>3,216</u>
STORAGE	<u> </u>
STOCKWATER	<u> </u>
MUNICIPAL	<u> </u>
DOMESTIC	<u>2.0</u>
INDUSTRIAL	<u> </u>
RECREATIONAL	<u> </u>
FISH	<u> </u>
OTHER:	<u> </u>
TRANSMOUNTAIN-TRANSBASIN	<u> </u>
INTERSTATE	<u> </u>
TOTAL DIVERSIONS	<u>3,218</u>
<u>DELIVERIES FROM STORAGE</u>	
IRRIGATION	<u> </u>
DOMESTIC	<u> </u>
MUNICIPAL	<u> </u>
STOCK	<u> </u>
INDUSTRIAL	<u> </u>
RECREATIONAL	<u> </u>
TRANSBASIN-TRANSMOUNTAIN	<u> </u>
OTHER: Released to system	<u>130</u>
TOTAL FROM STORAGE	<u>130</u>
<u>DELIVERIES FROM TRANSBASIN</u>	
IRRIGATION	<u> </u>
STORAGE	<u> </u>
MUNICIPAL	<u> </u>
TOTAL FROM TRANSBASIN	<u> </u>
<u>DUTY OF WATER:</u>	
TOTAL TO IRRIGATION	<u>3,216</u>
ACRES IRRIGATED	<u>1,386</u>
ACRE FEET DIVERTED PER ACRE	<u>2.32</u>
<u>NUMBER OF STRUCTURES OBSERVED</u>	
WATER RUN - NO INFORMATION AVAILABLE (E Code)	<u> </u>
ACTIVE DIVERSIONS - DAILY*	<u>10</u>
INFREQUENT	<u>3</u>
INACTIVE DIVERSIONS - NO WATER AVAILABLE (Code B)	<u> </u>
NOT USED (A,C,D Code)	<u>17</u>
NO INFORMATION AVAILABLE (F Code)	<u> </u>
NUMBER OF DITCHES	<u>23</u>
NUMBER OF RESERVOIRS	<u>5</u>
NUMBER OF WELLS	<u>1</u>
NUMBER OF OBSERVATIONS	<u>206</u>

*Ditches which show no use but had been observed may not be included here.

WATER COMMISSIONER'S SUMMARY

WATER DISTRICT 71

<u>DIRECT DIVERSIONS</u>	<u>ACRE FEET</u>
IRRIGATION	2,863
STORAGE	8,601
STOCKWATER	61
MUNICIPAL	1,685
DOMESTIC	313
INDUSTRIAL	1,203
RECREATIONAL	
FISH	48
OTHER:	22
TRANSMOUNTAIN-TRANSBASIN	124,179
INTERSTATE	
TOTAL DIVERSIONS	<u>138,975</u>
<u>DELIVERIES FROM STORAGE</u>	
IRRIGATION	180
DOMESTIC	
MUNICIPAL	
STOCK	155
INDUSTRIAL	
RECREATIONAL	
TRANSBASIN-TRANSMOUNTAIN	6,224
OTHER:	
TOTAL FROM STORAGE	<u>6,559</u>
<u>DELIVERIES FROM TRANSBASIN</u>	
IRRIGATION	
STORAGE	
MUNICIPAL	
TOTAL FROM TRANSBASIN	
<u>DUTY OF WATER:</u>	
TOTAL TO IRRIGATION	3,043
ACRES IRRIGATED	1,490
ACRE FEET DIVERTED PER ACRE	2.04
<u>NUMBER OF STRUCTURES OBSERVED</u>	
WATER RUN - NO INFORMATION AVAILABLE (E Code)	
ACTIVE DIVERSIONS - DAILY*	27
INFREQUENT	58
INACTIVE DIVERSIONS - NO WATER AVAILABLE (Code B)	1
NOT USED (A,C,D Code)	79
NO INFORMATION AVAILABLE (F Code)	5
NUMBER OF DITCHES	121
NUMBER OF RESERVOIRS	11
NUMBER OF WELLS	38
NUMBER OF OBSERVATIONS	<u>1,528</u>

*Ditches which show no use but had been observed may not be included here.

WATER COMMISSIONER'S SUMMARY

WATER DISTRICT 77

<u>DIRECT DIVERSIONS</u>	<u>ACFE FEET</u>
IRRIGATION	22,014
STORAGE	60
STOCKWATER	1,232
MUNICIPAL	
DOMESTIC	9
INDUSTRIAL	1
RECREATIONAL	
FISH	9,454
OTHER: Commercial	26
TRANSMOUNTAIN-TRANSBASIN	
INTERSTATE	75,436
TOTAL DIVERSIONS	<u>108,232</u>
<u>DELIVERIES FROM STORAGE</u>	
IRRIGATION	228
DOMESTIC	
MUNICIPAL	
STOCK	
INDUSTRIAL	
RECREATIONAL	
TRANSBASIN-TRANSMOUNTAIN	
OTHER: Storage	74
TOTAL FROM STORAGE	<u>302</u>
<u>DELIVERIES FROM TRANSBASIN</u>	
IRRIGATION	814
STORAGE	
MUNICIPAL	
TOTAL FROM TRANSBASIN	<u>814</u>
<u>DUTY OF WATER:</u>	
TOTAL TO IRRIGATION	23,056
ACRES IRRIGATED	4,076
ACRE FEET DIVERTED PER ACRE	5.66
<u>NUMBER OF STRUCTURES OBSERVED</u>	
WATER RUN - NO INFORMATION AVAILABLE (E Code)	
ACTIVE DIVERSIONS - DAILY*	72
INFREQUENT	23
INACTIVE DIVERSIONS - NO WATER AVAILABLE (Code B)	
NOT USED (A,C,D Code)	20
NO INFORMATION AVAILABLE (F Code)	
NUMBER OF DITCHES	85
NUMBER OF RESERVOIRS	17
NUMBER OF WELLS	13
NUMBER OF OBSERVATIONS	<u>1,754</u>

*Ditches which show no use but had been observed may not be included here.

WATER COMMISSIONER'S SUMMARY

WATER DISTRICT 78

DIRECT DIVERSIONS

	<u>ACPE FEET</u>
IRRIGATION	<u>24,424</u>
STORAGE	<u>1,145</u>
STOCKWATER	<u>1,443</u>
MUNICIPAL	<u>4</u>
DOMESTIC	<u>139</u>
INDUSTRIAL	<u> </u>
RECREATIONAL	<u> </u>
FISH	<u> </u>
OTHER: Commercial	<u>71</u>
TRANSMOUNTAIN-TRANSBASIN	<u>149</u>
INTERSTATE	<u> </u>
TOTAL DIVERSIONS	<u><u>27,375</u></u>

DELIVERIES FROM STORAGE

IRRIGATION	<u>181</u>
DOMESTIC	<u> </u>
MUNICIPAL	<u>327</u>
STOCK	<u>10</u>
INDUSTRIAL	<u> </u>
RECREATIONAL	<u> </u>
TRANSBASIN-TRANSMOUNTAIN	<u> </u>
OTHER:	<u> </u>
TOTAL FROM STORAGE	<u><u>518</u></u>

DELIVERIES FROM TRANSBASIN

IRRIGATION	<u>832</u>
STORAGE	<u>1,003</u>
MUNICIPAL	<u> </u>
TOTAL FROM TRANSBASIN	<u><u>1,835</u></u>

DUTY OF WATER:

TOTAL TO IRRIGATION	<u>25,256</u>
ACRES IRRIGATED	<u>7,998</u>
ACRE FEET DIVERTED PER ACRE	<u>3.16</u>

NUMBER OF STRUCTURES OBSERVED

WATER RUN - NO INFORMATION AVAILABLE (E Code)	<u>7</u>
ACTIVE DIVERSIONS - DAILY*	<u>68</u>
INFREQUENT	<u>48</u>
INACTIVE DIVERSIONS - NO WATER AVAILABLE (Code B)	<u>5</u>
NOT USED (A,C,D Code)	<u>35</u>
NO INFORMATION AVAILABLE (F Code)	<u>3</u>
NUMBER OF DITCHES	<u>133</u>
NUMBER OF RESERVOIRS	<u>20</u>
NUMBER OF WELLS	<u>13</u>
NUMBER OF OBSERVATIONS	<u>2,268</u>

*Ditches which show no use but had been observed may not be included here.