ROY ROMER Governor



JERIS A. DANIELSON State Engineer

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WATER RESOURCES STATE ENGINEER COLO.

#### **DIVISION OF WATER RESOURCES**

DARIES C. LILE, P.E.
DIVISION WATER ENGINEER
DIVISION 7

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January 10, 1991

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

Dear Dr. Danielson:

Enclosed is the 1990 I.Y.R. 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

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Water Admin.

#### I. WATER ADMINISTRATION

#### A. CURRENT WATER YEAR

The year 1990 was perhaps one of the most unusual water years that we have experienced in Division 7. The weather patterns for the past two and one-half years have resulted in below normal precipitation, and particularly the winter months of 1989-90 were at only 40% of normal. The dry winter, coupled with the previous two years of less than average water supplies, plunged southwest Colorado into a severe drought.

Lack of moisture had caused a depletion of reservoir storage and ground water supplies. The base flows on all of the streams were below those of the 1976-77 record lows. The Animas River was flowing less than 100 c.f.s. in March. Runoff forecast for all streams were in the 40% or below range.

There were numerous requests to drill replacement wells for domestic use. The ground water table was being depleted, particularly in the marginal aquifers in the Rafter J, Grandview, and the alluvial aquifer in Junction Creek.

Irrigators were analyzing their supplies on a weekly basis. Meetings were held with several groups to develop plans for the short supply. Users were encouraged to not place a call for direct irrigation from the streams until it was absolutely essential to irrigate, in hopes of filling the reservoirs to their maximum potential. Considerable planning and projecting of water needs were made by not only irrigators, but municipalities. Durango had a plan for water restrictions if necessary which was based on the percentage of available storage in their reservoir on College Hill.

Precipitation for the months of April and May improved the situation, but the forecast did not project more than a 60% supply for any of the streams. The soil moisture in most areas was very low and crop requirements were high due to the extremely warm June temperatures. With water supplies low and hot weather crop production, particularly for the first cutting of irrigated hay, is estimated to be 50% of normal. The dry land hay crop was virtually nonexistent.

We were fortunate, however, to receive a late April storm which enhanced the snow pack greater than the forecast reflected and projected amounts were greatly exceeded. Vallecito Reservoir filled, but Lemon, McPhee, Groundhog, and Jackson Gulch Reservoirs did not.

Controversy developed over fish flow releases below McPhee Reservoir. The projected runoff did not allow for an adequate supply for both farmers, municipalities, and fish flows. The Definite Plan Report for the Dolores Project provides that when limited supplies are available, the flows below McPhee were reduced to 20 c.f.s. The fishery was placed in stress and Trout

Unlimited became very active in applying pressure to the U.S. Bureau of Reclamation to increase the releases. Releases were increased to 50 c.f.s. but this amount still did not meet the fishery needs in the opinion of Trout Unlimited and the Colorado Division of Wildlife.

It was not until the first week of July that a change in the weather pattern developed. At that time we began to receive extremely high amounts of rainfall. Precipitation for July in Durango was 3.45 inches, which was 200% of normal, and in August 3.11 inches occurred which was in excess of 130% of normal.

Once the rains began, the water administrative workload decreased and everyone in southwestern Colorado breathed a sigh of relief. The drought cycle had affected irrigators, cities, well owners, and recreational uses including fishing, skiing, rafting and boating. The importance of water was well understood.

The short supply caused curtailment of water users on the Pine, Florida, Mancos, LaPlata, and Dolores Rivers. McElmo Creek was regulated for the first time since 1977. Other streams including the Little Blanco, Elbert Creek, Four Mile Creek and Junction Creek also required daily regulation. The calling period on most of the streams began with the reservoir owners invoking their filling rights in March and continued into September. Even though rains eased the crop demands, base flows in the streams did not adequately meet all the users' requirements.

#### B. U. S. BUREAU OF RECLAMATION PROJECTS

The Dolores Project remains on schedule; the first phase of the Towaoc Canal has been completed and contracts have been approved for the second phase. Water has been delivered to the M.V.I. System and 14,200 acres of new irrigated lands in the Cahone and Pleasant View areas.

The law suit concerning farmers who did not want to be held to their irrigation contracts has been settled. The Dolores Conservancy District agreed to drop their lands from the project, and make the water available to other Project users.

The major controversy surrounding the Project at the present time is the bypass flows for the trout fishery below McPhee Dam. The Project Definite Plan Report calls for a variable release for fish flows depending on the water supply for the Project. The plan sets levels for a low, average, and high year, depending on the forecasted runoff. The releases for the last several years have been at 150 c.f.s. to 70 c.f.s., and a very excellent trout fishery has developed. When the District reduced the flows to 20 c.f.s., fishermen in the area became quite concerned. Trout Unlimited lead an effort to have the flows increased, and they were successful in accomplishing this by applying pressure through the Commissioner of Reclamation in Washington, D.C. Consequently the flows were increased by the U.S. Bureau of Reclamation without the Dolores Conservancy District's approval. This caused a severe strain in relations between the Bureau and the District. As a result a

committee has been formed representing fishermen, the Dolores District, U.S.B.R., Colorado Division of Wildlife, fish biologists, and hydrologists to analyze the available water supplies and to develop a long term solution

The Animas-La Plata Project was scheduled for a construction start in April of 1990. However, an endangered fish has put a hold on the Project. The U.S. Fish and Wildlife Service issued a jeopardy opinion concerning the Colorado River Squaw Fish. They have found 27 fish including young of the year, and this reversed their 1979 opinion of non-jeopardy. The U.S. Fish and Wildlife biologists' opinion has resulted in no further development on the San Juan River and its tributaries not only in Colorado, but also New Mexico. The shut down of development has created problems for the Navajo Indian Irrigation Project, the Jicarilla Apaches, the two Colorado Ute Tribes, the cities of Farmington and Durango, and both the states of Colorado and New Mexico.

A compromise is being worked out which will allow for construction of Ridges Basin Reservoir and the Pumping Station while studies are being made concerning the Squaw Fish, and a recovery program is being developed.

The San Juan-Chama Project is still in the forefront of the minds of the The problems with loss of fish habitat, and silt Blanco River water users. from the diversion structure continues. The advisory group that was formed to work on the problem was successful in obtaining funding from the Southwestern Water Conservation Board, U.S. Bureau of Reclamation, and the Rio Blanco Homeowners for a study as to the potential for reclaiming the fishery. entity granted \$1,000 for the study which was coordinated by the U.S. Forest The preliminary results indicate that major habitat structures need to be placed in the river along with increased stream flows and reduction of the silt load before the fishery can be greatly improved. Portions of the stream may never support a true cold water fishery since temperature data collected by the Water Commissioner, particularly on the lower reaches, reflect water temperatures in excess of 70° F. during the summer months. Advisory Committee will be meeting in January 1991 to evaluate the data collected this summer and to make a decision on how to proceed.

#### C. INDIAN WATER RIGHTS SETTLEMENT

The Division office has completed the very detailed and time consuming inventory of existing uses on both the Southern Ute and Ute Mountain Ute Reservations. There were over 1,000 structures consisting of small springs, stock tanks and ponds, domestic and livestock wells, and small irrigated parcels. The field work was done primarily by retired Water Commissioner Bill Lynn, through a contract with the Attorney General's Office, and was compiled and computerized by Ken Beegles, Assistant Division Engineer.

Once the inventory work was completed the Attorney General's Office was able to prepare the stipulated decrees for submission to the Division 7 water court. Case W-1603B-76 for the San Juan River has been submitted to the water court. However, the remaining cases have not been signed off on by the Indians, and the Department of Justice. The problems concerning endangered species on the San Juan River has raised doubts as to the eventual and timely

construction of the Animas-La Plata Project which is an integral part of the Settlement Agreement, and it appears that the Tribes are being cautious about signing the stipulated decrees until they are confident that the Project will be constructed.

The Colorado Indian Water Rights Settlement Agreement has been the subject of presentations made in both the states of Wyoming and New Mexico by the Division Engineer, and at the American Society of Civil Engineers National Conference. The Agreement is generating interest, particularly with regard to the State administrative procedures agreed to by the Indian tribes.

The state of Wyoming is presently having very serious problems on the Wind River Reservation, and control and regulation of water on the reservation are at the center of the controversy. Unlike Colorado, the state of Wyoming litigated the Indian claims and the tribes were successful in obtaining their water rights from the United States Supreme Court. The issues of state jurisdiction and change of uses were not resolved and consequently, a conflict has resulted between Indians and non-Indians on the reservation as to entitlements. The past water year was also quite dry in Wyoming and non-Indian users were curtailed to meet the senior Indian claims. The entities have returned to court to resolve the jurisdictional issue.

#### D. INTERSTATE COMPACTS

The La Plata River Compact was operated as required this past year with very little problems between the states of Colorado and New Mexico. It was a particularly difficult year to administer the river since there were such extreme variances in weather conditions. During the early part of the season deliveries were affected by very dry and hot weather conditions, and during the late summer they were influenced by cooler weather and rains. These fluctuations in stream flows and conditions affected the workload and made it quite difficult to meet the interstate deliveries on a twenty-four hour basis. There were instances when a futile situation developed until the rains began in July.

There was more controversy than normal among the La Plata River users within Colorado due in part to the daily changing hydrological conditions and their concerns for administration of the water to New Mexico. It is always difficult to explain futile call situations, and for the Colorado water user to understand the need for regulation of the stream is not always a simple matter. The Water Commissioner certainly had to devote many hours this past summer and he did an excellent job of meeting the Compact while balancing the needs of Colorado users.

The San Juan-Chama supplied 71,620 acre feet of water to New Mexico as a portion of Colorado's delivery to New Mexico under the Project's authorizing legislation, and the Upper Colorado River Basin Compact. Problems still remain with the operation of the Project by the U.S. Bureau of Reclamation. These problems revolve around silting and minimum flow requirements. The Bureau needs to analyze the diversion requirements, minimum flows, and diversion structures to reduce the effects on the stream in Colorado while

supplying the water needs in New Mexico. It seems that only a minimal effort is being made to address the operational problems.

#### E. DAM SAFETY PROGRAM

The dam safety field engineer has been extremely active this past year and several improvements have been made to reservoirs in the Division.

The rehabilitation of Bauer Reservoir No. 1 was completed this summer and fall with minor grading of the embankment being the only construction work necessary that was not completed the previous year. Keeler Reservoir on Elbert Creek was drained, and the outlet pipe was slip lined and grouted with a new headgate being installed. This was a major construction effort, but it was well engineered and planned. The slip lining of the outlet conduit prevented the need for a complete breaching of the dam to install a new outlet pipe.

Having a full-time field engineer concentrating on dam safety issues has enhanced the overall safety of dams in Division 7. The presence of an engineer and having him available to assist the owners on day-to-day general maintenance problems, and his ability to gain the cooperation of dam owners has improved the safety of most of our dams while reducing the number of dams being restricted.

#### F. ABANDONMENT LIST

The 1990 Division 7 Abandonment List was prepared and published as required. There have been twenty-six formal objections to date. A total of one hundred sixty-two rights were placed on the list. Owners have until June 30, 1991 to file an objection with the Division Engineer. We have had one letter supporting the abandonment of a water right that was placed on the list. At the present time all objections have been acknowledged, but no formal actions have been taken to remove water rights from the list.

#### II. UPCOMING WATER YEAR

The upcoming water year will hopefully be wetter than the 1989-90 season. The fall months of October, November and December have produced better than average precipitation and carryover reservoir storage is above normal, and in most instances is double the amount in storage a year ago. This will perhaps reduce the conflicts over water during 1991.

The Division staff will continue to work with the water users on the Blanco River toward a resolution of the problems associated with the San Juan-Chama Project. There will be assistance provided as required on the bypass flow studies on the Dolores River, and any information and data that can assist the Animas-La Plata Board will be provided.

Resolution of protests to the Abandonment List will be made if possible for those rights which have evidence to support non-intent to abandon.

Budget restrictions will affect the day-to-day travel of the Water Commissioners and Division staff. There has been an increase in the cost of gasoline and consequently, there will need to be a reduction in travel. This will probably impact the water users during May and June. All staff members have been given a travel allocation for the months of December, January, February and March in an effort to save funds for use during the spring administrative period.

The focus on environmental issues will affect the Division in the coming year and will probably have an impact on the workload for the next several years. Water quality issues including the effects from oil and gas exploration in the San Juan Basin are already requiring staff time to investigate contamination from cathodic protection holes. The implementation of S. B. 181 with regard to water quality is just beginning to be developed and meetings were held with water users to define our agency's role in water quality issues. Additionally, endangered species, particularly fish, and the stream flows that are necessary to support them will impact the method of operations of reservoirs and the amount of water that can be developed in a given basin.

The relationship between water use and water quality, although not clearly defined by statute, will become directly related and the environmental effects of division from one basin to another will need to be analyzed, as well as change in water rights from agriculture to municipal uses. Historically only the impact on other water rights have been mitigated. However, the environmental aspects and social concerns are becoming a major factor in the changing of uses. Legislation concerning these issues will be introduced in this legislative session and although it is not known in what form or if the legislation will be passed, in the near future environmental concerns will have an impact on water administration.

Statistic Info

# TRANSMOUNTAIN DIVERSION SUMMARY

DIVISION 7

DESTINATION	WATER DISTRICT RIVER	O RIO GRANDE RIVER	8 UNCOMPAHGRE RIVER	8 UNCOMPAHGRE RIVER	8 UNCOMPAHGRE RIVER	O RIO GRANDE RIVER	O RIO GRANDE RIVER	O RIO GRANDE RIVER	O RIO GRANDE RIVER	O RIO GRANDE RIVER
	•	20	68	99	89	20	20	20	20	20
GANY GREAT	# OF DAYS DIVERTED	47	46	84	113	37	30	7.5	81	95
0001	ACRE-FEET DIVERTED	172	86	66	107	760	692	238	58	244
4 4 5 5	1990 WAIEK IEAK FEET # OF DAYS RTED DIVERTED	29	95	DITCH WASHED OUT	45	98	104	37	41	7.5
422	ACRE-FEET DIVERTED	53	78	DITCH	36	451	962	205	32	106
	RIVER D	SAN JUAN RIVER	ANIMAS RIVER	ANIMAS RIVER	ANIMAS RIVER	PINE RIVER	PINE RIVER	PIEDRA RIVER	PIEDRA RIVER	PIEDRA RIVER
SOURCE	R RICT NAME RIVER		гсн	DITCH	ІТСН	INUCHE PASS D.	DITCH	-SQUAW PASS D.	DON LA FONT #1 (S RIVER PEAK)	FONT #2 (PIEDRA PASS D.)
	CT NAME	TREASURE PASS DITCH	CARBON LAKE DITCH	MINERAL POINT DITCH	RED MOUNTAIN DITCH	PINE RIVER-WEMINUCHE PASS	WEMINUCHE PASS DITCH	WILLIAMS CREEK-SQUAW PASS D.	DON LA FONT #1	DON LA FONT #2
	R R RICT	-			-	-	•	•	•	•

# RESERVOIR STORAGE SUMMARIES

			a. m. o. in	~ 0	0.0 %
1 		100	39 98 100 95	87 100	100 100 93
EAR 1989	BEGINNING IRRIGATION SEASON STORAGE	2149 206 =======	9212 227 1136 37968 =======	112362 208 ====== 112570	2402 18960 3064 ========
IRRIGATION YEAR	% II	100 55	94 98 78 75	57 100	18 77 72
IRRIGA	BEGINNING IRRIGATION YEAR STORAGE	2149 114 =======	21890 227 889 30173	74000 208 ================================	423 14575 2384 ====== 17382
	END OF IRRIGATION YEAR STORAGE	2149 71 ======= 2220	21477 227 837 22232 ====== 44773	82987 208 ===================================	658 14575 2832 ====== 18065
1990	 	100	67 98 81 80	97	65 100 100
IRRIGATION YEAR	BEGINNING END OF IRRIGATION IRRIGATION SEASON YEAR STORAGE % STORAGE	2149 141 ======= 2290	15756 227 915 32086 =======	125799 208 ======= 126007	1556 18960 3302 ======
IRRI	%   	100 55	89 98 67 26	33 100	26 52 86
	BEGINNING IRRIGATION YEAR STORAGE	2149 114 ======= 2263	20739 227 764 10381 ======	42735 208 ======= 42943	622 9940 2832 ====== 13394
	SOURCE STREAM	ECHO CREEK RIO BLANCO TOTALS	CASCADE CREEK FLORIDA RIVER LIGHTNER/LA PLATA FLORIDA RIVER TOTALS	PINE RIVER BEAR CREEK TOTALS	DOLORES RIVER DOLORES RIVER TOTALS
	ER RESERVOIR RICT NAME	ECHO CANYON RESERVOIR HARRIS BROS. & BOONE #2	CASCADE RESERVOIR DURANGO REGULATORY JOHNSON RESERVOIR LEMON RESERVOIR	VALLECITO RESERVOIR WOMMER RESERVOIR	A.M.PUETT RESERVOIR NARRAGUINNEP RESERVOIR TOTTEN RESERVOIR

RESERVOIR STORAGE SUMMARIES

  1     1	<b>z</b>	100	58 100 100 100 100	70	45 98 81 100
YEAR 1989	BEGINNING IRRIGATION SEASON STORAGE	1176	202 1533 9948 52 442 =======	326 116 =======	209 21358 4795 381206 =======
TION Y	%    %	0	28 63 73 46 45	0 98	35 47 25 85
IRRIGATION YEAR		0    0	98 966 7276 24 200 ======	0 100 ====== 100	159 10300 1505 324956 =======
	END OF IRRIGATION YEAR STORAGE	296	33 324 3912 2 158 ======	300	21 13740 714 321628 =======
96	 	48	33 63 84 46 100	100	45 98 81 100
IRRIGATION YEAR	BEGINNING IRRIGATION SEASON % STORAGE	569	115 966 8409 24 442 =======	326 116 ===== 442	209 21358 4795 381206 =======
IRRIG4		9	0 21 28 46 15	0 8 8 6	8 63 12 85
	BEGINNING IRRIGATION YEAR STORAGE		324 2756 24 24 66 ======	100	36 13740 714 324755 ======
,	SOURCE STREAM	LA PLATA RIVER TOTALS	CRYSTAL CREEK CRYSTAL CREEK MANCOS RIVER MUD CREEK MIDDLE MANCOS R TOTALS	RINCONE CREEK MORRISON CREEK TOTALS	LOST CANYON CREEK GROUNDHOG CREEK LOST CANYON CREEK DOLORES RIVER TOTALS
	RESERVOIR ICT NAME:	RED MESA WARD RESERVOIR	BAUER RESERVOIR # 1 BAUER RESERVOIR # 2 JACKSON GULCH RESERVOIR SELLARS & MCCLANE RESV. WEBER RESERVOIR	BELMAR LAKE RESERVOIR MORRISON RESERVOIR	BIG PINE RESERVOIR GROUNDHOG RESERVOIR SUMMIT RESERVOIR MCPHEE RESERVOIR

11	    	100	93				100	100	96	100	100	98	100		
BEGINNING IRRIGATION SEASON STORAGE		332	409	13 13 11 11 11 11	741		1735	465	1230	240	635	009	10084		15289
	H 11 11	26	47				86	94	92	94	100	51	100		
BEGINNING IRRIGATION YEAR STORAGE		185	208	11 11 11 11	393		1500	216	1175	206	635	360	10084	          	14476
END OF IRRIGATION YEAR STORAGE	# # # # # # # # # # # # # # # # # # #	256	310		266		1311	375	1202	200	635	430	10084		14537
#       		66	84				100	100	96	100	100	86	100		
======================================		330	370		700		1735	465	1230	540	635	009	10084		15289
          	11 11 11	77	73				74	75	72	93	100	62	100		
======================================		254	322	## ## ## ## ## ##	576		1285	347	924	200	635	437	10084		14212
SOURCE		COYOTE CREEK	COYOTE CREEK		TOTALS		STOLLSTEIMER CR.	STOLLSTEIMER CR.	DUTTON CREEK	STOLLSTEIMER CR.	DUTTON CREEK	STOLLSTEIMER CR.	WILLIAMS CREEK		TOTALS
RESERVOIR CT NAME		SAPPINGTON RESERVOIR	SPENCE RESERVOIR				G.S. HATCHER RESERVOIR	LAKE FOREST RESERVOIR	LINN & CLARK RESERVOIR	PARGIN RESERVOIR	STEVENS RESERVOIR	TOWN CENTER RESERVOIR	WILLIAMS CR. RESERVOIR		
	BEGINNING BEGINNING END OF BEGINNING BEGINNING BEGINNING SOURCE YEAR SEASON YEAR YEAR STORAGE % STORAGE % STORAGE % STORAGE % STORAGE	BEGINNING BEGINNING END OF BEGINNING IRRIGATION IRRIGATION IRRIGATION IRRIGATION STARM STORAGE %	RESERVOIR         SOURCE         YEAR         %         STORAGE         %	RESERVOIR         SOURCE         YEAR         STORAGE         %         STORAGE	RESERVOIR         SOURCE         YEAR         STORAGE         % STORAG	RESERVOIR         SOURCE         YEAR         STORAGE         %         STORAGE	RESERVOIR         SOURCE         YEAR         STORAGE         %         STORAGE	RESERVOIR         SOURCE         YEAR         SEGINNING         BEGINNING         BEGINN	RESERVOIR         SOURCE         YEAR         STORAGE         %         TRIGATION         IRRIGATION         IRR	RESERVOIR   SOUNCE   YEAR   STORAGE   STORAG	RESERVOIR   SOURCE   YEAR   STORAGE   X	RESERVOIR         SOURCE         YEAR         SEGINNING         EBGINNING         ERRIGATION         ERRIGA	RESERVOIR         SOURCE         YEAR         STORAGE         X. STORAGE	RESERVOIR         SOURCE         YEAR         STORAGE         X STORAG	RESERVOIR         SOURCE         YEAR         STAGATION         IRRIGATION         IRRIGATION

1990 IRRIGATION YEAR WATER DIVERSION SUMMARIES BY DISTRICT

AVERAGE	ACRE-FEET PER ACRE		4.41	4.81	3.86	3.71	2.49	2.68	4.40	2.22	4.92	6.11	3.48	3.93
TOTAT.	ACRES		12,732	32,557	55,511	55,911	6,752	10,408	1,070	1,459	1,474	3,095	6,567	187,536
1 A TOT	DIVERSIONS TO TRRIGATION	(ACRE-FEET)	56, 130	156,757	214,375	$207,636\frac{1}{2}$	16,807	$27,941\frac{2}{}$	4,707	3,246	7,257	18,901	22,862	736,619
I V E C E	DIVERSIONS	(ACRE-FEET)	92	38,858	92,806	0	569	7,569	0	123	44,503	642	2,176	187,338
	TOTAL	(ACRE-FEET)	102,544	256,823	260,433	48,230	19,719	32,508	6,079	4,342	157,089	59,042	30,334	977,143
ORTING	ESTIMATED	VISITATIONS	4,335	8,239	4,989	677,4	4,113	1,260	586	131	2,138	2,217	2,188	34,645
RES REP	IVE	NR	11	0	0	2	2	2	0	2	ю	0	1	23
TOTAL STRUCTURES REPORTING	INACTIVE	NO		291	80	54	17	7	9	6	57	30	43	661
TOTAL	VE	NWA	10	25	6	13	30	13	0	က	24	0	7	134
	ACTIVE	WA	224	845	348	238	118	83	40	27	117	06	132	2,262
	٥	ICT												7

Total deliveries from transbasin (Dist. 71) 172,545 A.F., of which 147,494 A.F. were for irrigation. Total deliveries from transbasin (Dist. 71) 260 A.F., of which 260 A.F. were for irrigation.

1990 WATER YEAR DIVERSION SUMMARIES BY DISTRICT IN ACRE-FEET

INTER- STATE/ COMPACT	$37,634\frac{1}{2}$	7,046	0	0	1, 130 $\frac{3}{2}$	0	$1,356\frac{4}{2}$	0	0	33,985 $\frac{1}{2}$	0	81,151
OTHER G	0	64	0	0		0	0	0	7	0	0	72
COMMERCIAL	1,712	756	19	Ŋ	7	9	0	0	∞	2	4	2,516
FISH	1,232	11,885	1,667	0	0	0	.0	0	3,649	5,310	5,880	29,623
CREATION	0	m	29	0	0	83	0	0	10	0	0	163
INDUSTRIAL RECREATION	0	30,171	0	0	0	0	0	0	0	н	0	30,172
DOMESTIC	24	195	99	14	26	13	7	0	37	14	11	402
MUNIGIPAL	477	4,603	813	$4,639\frac{2}{}$	0	1,045	0	0	351	0	551	1,923 174,917 26,923 12,479
STOCK	4,411	9,778	172	4,137	1,948	3,000	12	1,127	302	923	1,113	26,923
TRANS- BASIN OUTFLOW	1,918	0	0	0	751	0	0	0	$172,248\frac{5}{2}$	0	0	174,917 h San Inan-Cl
TRANS- MOUNTAIN OUTFLOW	53	114	1,413	0	0	0	0	0	0	0	343	1,923
R ICT	 										1	- D1**07*

Diverted through San Juan-Chama Project to New Mexico

<sup>4,505</sup> A.F. delivered from transbasin - District 71

Total diverted by Enterprise and Pioneer Ditches only to New Mexico

Water delivered to New Mexico as provided in Pine River Irrigation Project

Diverted to Districts 34 and 32

LA PLATA RIVER COMPACT MONTHLY ADMINSTRATIVE SUMMARY IN ACRE FEET

Ħ	HESPERUS STATION	LA PLATA & CHERRY CR. DITCH	PINE RIDGE DITCH	HESPERUS TOTAL	STATE LINE STATION	ENTERPRISE DITCH (NEW MEXICO)	PIONEER	DELIVERED STATE LINE TOTAL (	REQUIRED TOTAL (1/2 HESPERUS)
BER	229	0	0	229	245	0	0	245	
RY	178	0	0	178	293	0	0	293	1
ARY	170	0	0	170	421	0	0	421	! !
	359	0	0	359	587	23		617	147
	1290	153	123	1566	720	23	17	160	745
	5290	891	266	6747	3060	127	154	3341	3312
	3450	1231	146	4827	2090	140	187	2417	2473
	1920	133	29	2082	790	114	139	1043	1049
H	1120	58	0	1178	229	49	09	356	593
MBER	1130	0	38	1168	546	32	0	578	247
ER	1210	124	171	1505	673	40	7	720	772
BER	770	0	27	197	321	126	0	447	402
Ω *	16539	2590	1100	20229	9016	692	571	10279	10040

NEW MEXICO REQUESTED REQUIRED AMOUNT UP TO 90 CFS, MARCH 7, 1990

BEGINNING JULY 1, COLORADO DIVERTED ALL STREAM FLOWS AT HESPERUS LEAVING LOWER LA PLATA FLOWS FOR NEW MEXICO

DUE TO HEAVY RAINS JULY 5 & 6, COLORADO RETURNED TO NORMAL RIVER DIVERSION

RIVER FLOWS AGAIN DROPPED AND COLORADO DIVERTED ALL FLOWS AT HESPERUS LEAVING LOWER LA PLATA FLOWS FOR JULY 24,1990 NEW MEXICO DUE TO RAINFALL AUG 16-18, COLORADO ATTEMPTED TO DELIVER 1/2 OF HESPERUS FLOWS TO STATELINE FROM AUG. 18 TO AUG. 27,1990

RIVER FLOWS AGAIN DROPPED AND COLORADO DIVERTED ALL FLOWS AT HESPERUS LEAVING LOWER LA PLATA FLOWS FOR NEW MEXICO AUG. 27, 1990

\* ALL TOTALS ARE FOR PERIOD OF COMPACT CALL

# UPPER BASIN COMPACT SAN JUAN-CHAMA DIVERSIONS

TEN-YEAR TOTALS (USGS)	980300 974280 1043310 1024310 1090680 1037380 1041330 1104990 1064320 948690	
AZOTEA TUNNEL USGS BOOKS T	59980 153300 47230 145100 85230 104200 164200 164200 123960 123960 134300 113600 89180 89180 83050 63530 48570	•
TOTAL COLO. DIVERSION	51510 160430 45060 136100 80370 17417 97140 137190 124750 106470 86960 83860 718860 718860 718860 83860 71620	•
OSO DIVERSION	24980 79810 18700 369200 369200 369200 722460 72460 69680 69680 69680 69680 69680 72460 69680 72460 72460 72460 72460 72460 72460 72630 74,94	•
LITTLE OSO DIVERSION	11340 1120 9720 1070 8120 2420 8980 6970 6870 6070 6070 672 1480	•
RIO BLANCO DIVERSION	25190 26290 26290 25290 410000 13450 46960 46960 46960 32120 32120 32120 3400 35520 37690 37690 37690	•
WATER YEAR	A C C C C C C C C C C C C C C C C C C C	

LIMITS: 1,350,000 ACRE-FEET IN TEN CONSECUTIVE YEARS 270,000 ACRE-FEET IN ANY ONE YEAR

WATER DIVISION NO. 7

PLANS FOR AUMENTATION

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	Brief Statement of Plan	Tail water from the Henry Bolen Ditch for storage under approved substitute supply plan, for irrigation when call is placed on the river.	For use in Mountain Valley Subdivision. Plan calls for change of water right, alternate points for 27 wells, surface, storage, underground, and appropriative right of substitution and exchange.
	Time of Release		
	Amount of Water to be Released (AF or cfs)	4.16 A.F.	1.50 c.f.s.
7220	Stream	Mancos River	Florida R.
	Water Dist.	34	30
	Мате	Noland Pit Pond	Pioneer Ditch
	Jater Court Case #	90cw60	90CW61

#### WATER DIVISION NO. 7

#### ACTIVITY SUMMARY FY 1990

<u>ACTIVITY</u>	TOTALS
NUMBER OF PROFESSIONAL AND TECHNICAL STAFF	4
NUMBER OF CLERICAL STAFF	1
NUMBER OF WATER COMMISSIONER FTE ASSIGNED	13
NUMBER OF DECREED SURFACE RIGHTS	120
NUMBER OF SURFACE RIGHTS ADMINISTERED/OBSERVATIONS	26, 675
NUMBER OF WELLS	896
NUMBER OF PLANS FOR AUGMENTATION	1
NUMBER OF CONSULTATIONS WITH REFEREE	95
NUMBER OF WATER COURT APPEARANCES	8
NUMBER OF MEETINGS WITH WATER USERS	146
NUMBER OF MEETINGS TO RESOLVE WATER RELATED DISPUTES	41
NUMBER OF CONTACTS TO CIVE PUBLIC ASSISTANCE ON WATER MATTERS	16 359

#### WATER COURT ACTIVITIES

#### CALENDAR YEAR 1990

NUMBER OF APPLICATIONS FOR DECREES	80
NUMBER OF CONSULTATIONS WITH REFEREE	73
NUMBER OF DECREES ISSUED BY WATER COURT	132
TYPE OF DECREE:	
SURFACE WATER	77
GROUND WATER	32
RESERVOIRS	23
TRANSFER	4
ALTERNATE POINT	4
CHANGE IN USE	0
PLANS FOR AUGMENTATION	3
IN-STREAM FLOW	0
OTHER	50
NUMBER OF STRUCTURES IN DECREES:	
TYPES OF STRUCTURES:	
DITCHES	38
RESERVOI RS	23
WELLS	33
OTHER (SPRINGS, PIPELINES, PUMPS, ETC.)	43
TOTAL STRUCTURES	607

#### OFFICE ADMINISTRATION FYR 1990

<u>NAME</u>	POSITION		MONTHS B	AL YEAR BUDGETED/ RKED	FISCAL YEAR MILEAGE
DARIES C. LILE KENNETH A. BEEGLES	DIVISION ENG ASS'T. DIVIS	SINEER SION ENGINEER	12 12	12 12	3,982 P 2,367 P 9,359 S*
SCOTT D. BRINTON	HYDROGRAPHER	ζ, W. R. E.	12	12	1,144 P 13,245 S
FRANK J. KUGEL ANN-LOUISE FAUTH	SR. PROFESSI	DAM SAFETY INSPECTOR, SR. PROFESSIONAL ENGINEER SENIOR SECRETARY		12 12	
FULL TIME EMPLOYEES IN	FIELD				
<u>NAME</u>	POSITION	DISTRICT			
WILLIAM E. BAKER RICHARD G. BALTZELL GLEN E. HUMISTON	W. C. C W. C. C SR. W. C.			12 12 12	10,793 P 9,938 P 190 P
J. RUSSELL KENNEDY	SR. W. C.	33	12	12	16,503 S 3,709 P 12,882 S
DAVID A. NELSON (1) HAL M. PIERCE (2) JOHN E. VALENTINE	W. C. C	31, 46	12	12	12,229 P 12,727 P 9,709 P
PERMANENT PART TIME EM	PLOYEES IN FIF	<u> ILD</u>			
HAROLD L. BAXSTROM ROBERT R. BECKER ROBERT E. DANIELS MATTHEW A. SCHMITT SHERRY L. SCHUTZ JOHN J. TAYLOR	W. C. B	69, 71 31, 46 33 77 78	8. 0 5. 0 4. 0 7. 0 5. 0	8. 0 5. 0 4. 0 7. 0 5. 0	7, 102 P 3, 397 P 9, 208 P 4, 164 P
		TOTALS TOTAL FTE	34. 0 14. 8	34. 0 14. 8	51,989 S 104,987 P
	TOTAL MILES	DRIVEN			156, 976

<sup>(1)</sup> Received W. C. "C", 7/1/90 (2) Received W. C. "C", 12/1/89 \*Vehicle used by D. E. and A. D. E. \*\*Mileage, etc., transferred to Div. 7 cost center 7/1/90

DIVISION 7 BUDGET PROJECTIONS

MONTH	FY88-89 TOTAL	PROJECTED FY89-90	EST CUMULATIVE EXPENDITURES	ACTUAL FY89-90	ACTUAL CUMULATIVE
JULY	4, 882	5,000	5, 000	5,000	5,000
AUGUST	4, 356	5,000	10,000	5, 325	10, 325
SEPTEMBER	3, 245	3,000	13,000	3, 824	14, 149
OCTOBER	3, 267	3,000	16,000	3, 386	17, 535
NOVEMBER	2, 495	2,500	18, 500	1, 957	19, 492
DECEMBER	2,755	2, 200	20, 700	1, 985	21, 477
JANUARY	3, 738	2, 200	22, 900	1, 140	22, 617
FEBRUARY	2, 154	2, 200	25, 100	1, 829	24, 446
MARCH	1,764	2, 500	27, 600	1, 955	26, 401
APRIL	4, 978	4,000	31,600	2, 921	29, 322
MAY	5, 132	4, 950	36, 550	4, 563	33, 885
JUNE	4, 936	5,000	41,550	8, 175	42,060
TOTAL REMAINING AMO	43, 702 OUNT	42, 346		\$42,060 \$286	99. 3

Original budget was for \$41,550 before dam safety allocation

1990 RIVER CALLS

DURATION	ays	3mos, 18 days	145 days	ays	.ys	days	lays	7 mo., 6 days	mo., 14 days	lays
nd	46 days	3то.	145	29 days	9 days	31 d	26 days	7 mo	3 шо	97 days
DATE OFF CALL	08/11/90	10/13/90	10/02/90	04/22/90	04/02/00	06/10/90	05/11/90	10/31/90	09/14/90	10/01/90
PRIORITY	#3	#12	23	J-2	. P-26	r 65-R1	#2	6#	M-4	#16
MOST SENIOR CURTAILED STRUCTURE	Mesa Ditch	Echo Ditch	Florida Canal	Animas City Ditch	Various P-26 Prior.	Vallecito Reservoir	Wilson Ditch	Hay Gulch Ditch	Lee & Burke Ditch	M. V. I.
DATE ON CALL	04/05/90	06/57/90	05/13/90	03/25/90	06/56/90	05/10/90*	04/16/1990	$03/25/90 \frac{1}{2}$	06/10/90	06/56/90
PRIORITY	#58	<i>L</i> #	F-68	J-2	P-38	65-R1		97#	M-36	D-16
INITIAL CALLING STRUCTURE	Mesa Ditch	Mees Ditch	Florida Farmers D.	Animas City Ditch	Schroder Ditch	Vallecito Res.		Enterprise Ditch	Webber Ditch	M. V. I.
RIVER	FOUR MILE CREEK	LITTLE BLANCO R.	FLORIDA RIVER	JUNCTION CREEK	PINE RIVER	PINE RIVER	MC ELMO CREEK	LA PLATA RIVER	MANCOS RIVER	DOLORES RIVER
Ð.	29	29	30	30	31	31	32	33	34	71

 $\star$  Vallecito Reservoir offered to make up shortages in ditches on 07/16/90

 $<sup>\</sup>underline{1}/$  Red Mesa Reservoir took water whenever possible the entire year

Appendix

# WATER COMMISSIONER DISTRICT SUMMARY DISTRICT 29--1990

DIRECT DIVERSIONS IRRIGATION STORAGE STOCKWATER MUNICIPAL DOMESTIC INDUSTRIAL RECREATION FISH OTHER: COMMERCIAL TRANSMOUNTAIN-TRANSBASIN	1990 ACRE-FEET 56,129 92 4,411 472 24 0 0 1,232 712 1,838
INTERSTATE	37,634
TOTAL DIVERSIONS	102,544
DELIVERIES FROM STORAGE IRRIGATION DOMESTIC MUNICIPAL STOCK INDUSTRIAL RECREATION TRANSBASIN-TRANSMOUNTAIN OTHER: FISH	1 0 5 0 0 0 156
TOTAL DIVERSIONS	162
DELIVERIES FROM TRANSBASIN IRRIGATION STORAGE MUNICIPAL STOCK	0 0 0 0
TOTAL FROM TRANSBASIN	0
DUTY OF WATER: TOTAL TO IRRIGATION ACRES IRRIGATED ACRE-FEET DIVERTED PER ACRE	56,130 12,732 4.41
NUMBER OF STRUCTURES OBSERVED  WATER RUN-NO INFORMATION AVAILABLE (E CODE)  ACTIVE DIVERSIONS-DAILY  -INFREQUENT STRUCTURES  INACTIVE DIVERSIONS-NO WATER AVAILABLE (B CODE)	312 0 176 48 10
-NOT USED (A,C,D, CODES) -NO INFORMATION AVAILABLE (F CODE)	67 ) 11
NUMBER OF DITCHES, SURFACE RIGHTS NUMBER OF RESERVOIRS NUMBER OF WELLS	268 56 67
NUMBER OF OBSERVATIONS	4,335

### WATER COMMISSIONER DISTRICT SUMMARY DISTRICT 30--1990

DIRECT DIVERSIONS	1990 ACRE-FEET
IRRIGATION	138,567
STORAGE	38,858
STOCKWATER	9,778
MUNICIPAL	4,603
DOMESTIC	194
INDUSTRIAL	17,924
RECREATION	3
FISH	11,885
OTHER: COMMERCIAL, RECHARGE, EVAP etc.	820
TRANSMOUNTAIN-TRANSBASIN	114
INTERSTATE	7,046
TOTAL DIVERSIONS	229,792
DELIVERIES FROM STORAGE	
IRRIGATION	17,404
DOMESTIC	1
MUNICIPAL	0
STOCK	0
INDUSTRIAL	12,247
RECREATION	0
TRANSBASIN-TRANSMOUNTAIN	0
OTHER: FISH, COMMERCIAL, etc.	79 82
SNOWMAKING TOTAL DIVERSIONS	
TOTAL DIVERSIONS	29,013
DELIVERIES FROM TRANSBASIN	
IRRIGATION	786
STORAGE	73
MUNICIPAL	0
STOCK	0
TOTAL FROM TRANSBASIN	859
DUTY OF WATER:	1-6
TOTAL TO IRRIGATION	156,757
ACRES IRRIGATED	32,557
ACRE-FEET DIVERTED PER ACRE	4.81
NUMBER OF STRUCTURES OBSERVED	845
WATER RUN-NO INFORMATION AVAILABLE (E CODE)	0
ACTIVE DIVERSIONS-DAILY	269
-INFREQUENT STRUCTURES	576
INACTIVE DIVERSIONS-NO WATER AVAILABLE (B CODE)	25
-NOT USED (A,C,D, CODES)	291
-NO INFORMATION AVAILABLE (F CODE)	0
NUMBER OF DITCHES	636
NUMBER OF RESERVOIRS	98
NUMBER OF WELLS	370
NUMBER OF OBSERVATIONS	8,239
	-,

#### WATER COMMISSIONER DISTRICT SUMMARY DISTRICT 31--1990

DIRECT DIVERSIONS IRRIGATION STORAGE STOCKWATER MUNICIPAL DOMESTIC INDUSTRIAL RECREATION FISH OTHER: COMMERCIAL TRANSMOUNTAIN-TRANSBASIN	1990 ACRE-FEET 163,619 92,806 172 636 34 0 67 1,667 19
TOTAL DIVERSIONS	. 260,433
DELIVERIES FROM STORAGE IRRIGATION DOMESTIC MUNICIPAL STOCK INDUSTRIAL RECREATION TRANSBASIN-TRANSMOUNTAIN OTHER: EVAPORATION	50,756 30 177 0 0 0 0 2,550
TOTAL DIVERSIONS	. 53,513
DELIVERIES FROM TRANSBASIN IRRIGATION STORAGE MUNICIPAL STOCK	0 0 0 0
TOTAL FROM TRANSBASIN	. 0
DUTY OF WATER: TOTAL TO IRRIGATION ACRES IRRIGATED ACRE-FEET DIVERTED PER ACRE	214,375 55,511 3.86
NUMBER OF STRUCTURES OBSERVED  WATER RUN-NO INFORMATION AVAILABLE (E CODE)  ACTIVE DIVERSIONS-DAILY  -INFREQUENT STRUCTURES  INACTIVE DIVERSIONS-NO WATER AVAILABLE (B CODE)  -NOT USED (A,C,D, CODES)  -NO INFORMATION AVAILABLE (F CODE)	437 0 120 228 9 80 0
NUMBER OF DITCHES, OTHER SURFACE RIGHTS NUMBER OF RESERVOIRS NUMBER OF WELLS NUMBER OF OBSERVATIONS	244 62 145 4,989

# WATER COMMISSIONER DISTRICT SUMMARY DISTRICT 32--1990

DIRECT DIVERSIONS IRRIGATION STORAGE STOCKWATER MUNICIPAL DOMESTIC INDUSTRIAL RECREATION FISH OTHER: COMMERCIAL	1990 ACRE-FEET 47,901 0 176 134 14 0 0
TRANSMOUNTAIN-TRANSBASIN	0
TOTAL DIVERSIONS	48,230
DELIVERIES FROM STORAGE	
IRRIGATION	12,241
DOMESTIC	0
MUNICIPAL STOCK	0 1,386
INDUSTRIAL	1,500
RECREATION	0
TRANSBASIN-TRANSMOUNTAIN OTHER: FISH	0
TOTAL DIVERSIONS	13,627
DEL TANDETTO TOOK TO ANGUAGAN	
DELIVERIES FROM TRANSBASIN IRRIGATION	147,494
STORAGE	17,971
MUNICIPAL	4,505
STOCK	2,575
TOTAL FROM TRANSBASIN	172,545
DUTY OF WATER:	
TOTAL TO IRRIGATION	207,636
ACRES IRRIGATED	55,911
ACRE-FEET DIVERTED PER ACRE	3.71
NUMBER OF STRUCTURES OBSERVED	307
WATER RUN-NO INFORMATION AVAILABLE (E CODE)	0
ACTIVE DIVERSIONS-DAILY	171
-INFREQUENT STRUCTURES INACTIVE DIVERSIONS-NO WATER AVAILABLE (B CODE)	67 13
-NOT USED (A,C,D, CODES)	54
-NO INFORMATION AVAILABLE (F CODE)	2
NUMBER OF DITCHES, SURFACE RIGHTS	275
NUMBER OF RESERVOIRS	15
NUMBER OF WELLS	20
NUMBER OF OBSERVATIONS	4,449

# WATER COMMISSIONER DISTRICT SUMMARY DISTRICT 33--1990

DIRECT DIVERSIONS IRRIGATION STORAGE STOCKWATER	1990 ACRE-FEET 16,427 569 1,943
MUNICIPAL DOMESTIC INDUSTRIAL RECREATION	0 25 0 0
FISH OTHER: COMMERCIAL TRANSMOUNTAIN-TRANSBASIN	0 4 751
INTERSTATE  TOTAL DIVERSIONS	1,130
	19,719
DELIVERIES FROM STORAGE IRRIGATION DOMESTIC	380 1
MUNICIPAL STOCK INDUSTRIAL	0 5 0
RECREATION TRANSBASIN-TRANSMOUNTAIN OTHER:	0 0 1
TOTAL DIVERSIONS	387
DELIVERIES FROM TRANSBASIN	
IRRIGATION	0
STORAGE MUNICIPAL STOCK	0 0 0
TOTAL FROM TRANSBASIN	. 0
DUTY OF WATER:	
TOTAL TO IRRIGATION	16,807
ACRES IRRIGATED ACRE-FEET DIVERTED PER ACRE	6,752 2.49
NUMBER OF STRUCTURES OBSERVED	157
WATER RUN-NO INFORMATION AVAILABLE (E CODE)	0
ACTIVE DIVERSIONS-DAILY -INFREQUENT STRUCTURES	49 59
INACTIVE DIVERSIONS-NO WATER AVAILABLE (B CODE)	30
-NOT USED (A,C,D, CODES) -NO INFORMATION AVAILABLE (F CODE)	17 2
NUMBER OF DITCHES, SURFACE RIGHTS	100
NUMBER OF RESERVOIRS	10
NUMBER OF WELLS NUMBER OF OBSERVATIONS	30 4 113

# WATER COMMISSIONER DISTRICT SUMMARY DISTRICT 34--1990

	DIRECT DIVERSIONS  IRRIGATION  STORAGE  STOCKWATER  MUNICIPAL  DOMESTIC  RECREATION  FISH  OTHER: COMMERCIAL	1990 ACRE-FEET 21,098 7,569 3,000 828 13 0
	TOTAL DIVERSIONS	32,508
	DELIVERIES FROM STORAGE IRRIGATION DOMESTIC MUNICIPAL STOCK INDUSTRIAL RECREATION OTHER: COMMERCIAL	6,583 0 217 0 0 83 6
	TOTAL DIVERSIONS	6,889
	DELIVERIES FROM TRANSBASIN IRRIGATION STORAGE MUNICIPAL STOCK	260 0 0 0
	TOTAL FROM TRANSBASIN	260
	DUTY OF WATER: TOTAL TO IRRIGATION ACRES IRRIGATED ACRE-FEET DIVERTED PER ACRE	27,941 10,408 2.68
-	NUMBER OF STRUCTURES OBSERVED  WATER RUN-NO INFORMATION AVAILABLE (E CODE)  ACTIVE DIVERSIONS-DAILY  -INFREQUENT STRUCTURES  INACTIVE DIVERSIONS-NO WATER AVAILABLE (B CODE)  -NOT USED (A,C,D, CODES)  -NO INFORMATION AVAILABLE (F CODE)	105 0 62 21 13 7 2
	NUMBER OF DITCHES, SURFACE RIGHTS NUMBER OF RESERVOIRS NUMBER OF WELLS NUMBER OF OBSERVATIONS	102 11 8 1,260

# WATER COMMISSIONER DISTRICT SUMMARY DISTRICT 46--1990

	1990
DIRECT DIVERSIONS	ACRE-FEET
IRRIGATION	4,707
STORAGE STOCKWATER	0 12
MUNICIPAL	0
DOMESTIC	4
INDUSTRIAL	Ö
RECREATION	0
FISH	0
OTHER: COMMERCIAL	0
INTERSTATE	1,356
TOTAL DIVERSIONS	. 6,079
DELIVERIES FROM STORAGE	
IRRIGATION	0
DOMESTIC	0
MUNICIPAL	0 0
STOCK OTHER: FISH	U
OTHER. PION	
TOTAL DIVERSIONS	. 0
DELIVERIES FROM TRANSBASIN	
IRRIGATION	0
STORAGE	0
MUNICIPAL	0
STOCK	0
TOTAL FROM TRANSBASIN	. 0
DUTY OF WATER:	
TOTAL TO IRRIGATION	4,707
ACRES IRRIGATED	1,070
ACRE-FEET DIVERTED PER ACRE	4.40
NUMBER OF STRUCTURES OBSERVED	46
WATER RUN-NO INFORMATION AVAILABLE (E CODE)	0
ACTIVE DIVERSIONS-DAILY	37
-INFREQUENT STRUCTURES	3
INACTIVE DIVERSIONS-NO WATER AVAILABLE (B CODE)	0
-NOT USED (A,C,D, CODES)	6
-NO INFORMATION AVAILABLE (F CODE)	0
NUMBER OF DITCHES, SURFACE RIGHTS	42
NUMBER OF RESERVOIRS	2
NUMBER OF WELLS	0
NUMBER OF OBSERVATIONS	586

# WATER COMMISSIONER DISTRICT SUMMARY DISTRICT 69--1990

DIRECT DIVERSIONS IRRIGATION STORAGE STOCKWATER MUNICIPAL DOMESTIC INDUSTRIAL RECREATION FISH OTHER: COMMERCIAL	1990 ACRE-FEET 3,096 123 1,123 0 0 0 0
TOTAL DIVERSIONS	4,342
DELIVERIES FROM STORAGE IRRIGATION DOMESTIC MUNICIPAL STOCK OTHER: FISH	150 0 0 4 0
TOTAL DIVERSIONS	
DELIVERIES FROM TRANSBASIN IRRIGATION STORAGE MUNICIPAL STOCK	0 0 0 0
TOTAL FROM TRANSBASIN	0
DUTY OF WATER: TOTAL TO IRRIGATION ACRES IRRIGATED ACRE-FEET DIVERTED PER ACRE	3,246 1,459 2.22
NUMBER OF STRUCTURES OBSERVED  WATER RUN-NO INFORMATION AVAILABLE (E CODE)  ACTIVE DIVERSIONS-DAILY  -INFREQUENT STRUCTURES  INACTIVE DIVERSIONS-NO WATER AVAILABLE (B CODE)	41 0 14 13 3
-NOT USED (A,C,D, CODES) -NO INFORMATION AVAILABLE (F CODE)	9 2
NUMBER OF DITCHES, SURFACE RIGHTS NUMBER OF RESERVOIRS NUMBER OF WELLS NUMBER OF OBSERVATIONS	31 8 1 131

# WATER COMMISSIONER DISTRICT SUMMARY DISTRICT 71--1990

DIRECT DIVERSIONS IRRIGATION		1990 ACRE-FEET 7,257
STORAGE STOCKWATER		44,503 302
MUNICIPAL DOMESTIC INDUSTRIAL		351 37 0
RECREATION		10
FISH OTHER: COMMERCIAL		3,649 8
TRANSMOUNTAIN-TRANSBA	ASIN	100,972
	TOTAL DIVERSIONS	157,089
DELIVERIES FROM STORAGE		_
IRRIGATION DOMESTIC		0 0
MUNICIPAL		0
STOCK		0
INDUSTRIAL RECREATION		0
TRANSBASIN-TRANSMOUNTOOTHER: AUGMENTATION	TAIN	71,276 7
	TOTAL DIVERSIONS	71,283
DELIVERIES FROM TRANSBASIN	I	
IRRIGATION		0
STORAGE MUNICIPAL		0
STOCK		0
	TOTAL FROM TRANSBASIN	0
DUTY OF WATER:		
TOTAL TO IRRIGATION ACRES IRRIGATED		7,257 1,474
ACRE-FEET DIVERTED PI	ER ACRE	4.92
NUMBER OF STRUCTURES OBSE	RVED	201
WATER RUN-NO INFORMATION AVAILABLE (E CODE)		0
ACTIVE DIVERSIONS-DAD		50 67
-INFREQUENT STRUCTURES INACTIVE DIVERSIONS-NO WATER AVAILABLE (B CODE)		24
	NOT USED (A,C,D, CODES)	57
-1	NO INFORMATION AVAILABLE (F CODE)	3
NUMBER OF DITCHES, SURFACE	E RIGHTS	135
NUMBER OF RESERVOIRS NUMBER OF WELLS		16 46
NUMBER OF OBSERVATIONS		2,138

# WATER COMMISSIONER DISTRICT SUMMARY DISTRICT 77--1990

DIRECT DIVERSIONS IRRIGATION STORAGE STOCKWATER MUNICIPAL DOMESTIC INDUSTRIAL RECREATION FISH OTHER: COMMERCIAL INTERSTATE	1990 ACRE-FEET 18,359 448 923 0 14 1 0 5,310 2 33,985
TOTAL DIVERSIONS	59,042
DELIVERIES FROM STORAGE IRRIGATION DOMESTIC STOCK INDUSTRIAL RECREATION OTHER: FISH	299 0 0 0 0
TOTAL DIVERSIONS	299
DELIVERIES FROM TRANSBASIN IRRIGATION STORAGE MUNICIPAL STOCK	243 194 0 0
TOTAL FROM TRANSBASIN	437
DUTY OF WATER: TOTAL TO IRRIGATION ACRES IRRIGATED ACRE-FEET DIVERTED PER ACRE	18,901 3,095 6.11
NUMBER OF STRUCTURES OBSERVED  WATER RUN-NO INFORMATION AVAILABLE (E CODE)  ACTIVE DIVERSIONS-DAILY  -INFREQUENT STRUCTURES  INACTIVE DIVERSIONS-NO WATER AVAILABLE (B CODE)  -NOT USED (A,C,D, CODES)  -NO INFORMATION AVAILABLE (F CODE)	118 0 73 17 0 30 0
NUMBER OF DITCHES, SURFACE RIGHTS NUMBER OF RESERVOIRS NUMBER OF WELLS NUMBER OF OBSERVATIONS	88 17 13 2,217

# WATER COMMISSIONER DISTRICT SUMMARY DISTRICT 78--1990

DIRECT DIVERSIONS IRRIGATION STORAGE STOCKWATER MUNICIPAL DOMESTIC INDUSTRIAL RECREATION FISH OTHER: COMMERCIAL TRANSMOUNTAIN-TRANSBASIN	1990 ACRE-FEET 21,119 1,864 1,113 0 11 0 5,880 4 343
TOTAL DIVERSIONS	30,334
DELIVERIES FROM STORAGE IRRIGATION DOMESTIC MUNICIPAL STOCK INDUSTRIAL RECREATION TRANSBASIN-TRANSMOUNTAIN OTHER: FISH	752 0 551 0 0 0 0
TOTAL DIVERSIONS	1,303
DELIVERIES FROM TRANSBASIN IRRIGATION STORAGE MUNICIPAL STOCK	991 312 0 0
TOTAL FROM TRANSBASIN	1,303
DUTY OF WATER: TOTAL TO IRRIGATION ACRES IRRIGATED ACRE-FEET DIVERTED PER ACRE	22,862 6,567 3.48
NUMBER OF STRUCTURES OBSERVED  WATER RUN-NO INFORMATION AVAILABLE (E CODE)  ACTIVE DIVERSIONS-DAILY  -INFREQUENT STRUCTURES  INACTIVE DIVERSIONS-NO WATER AVAILABLE (B CODE)  -NOT USED (A,C,D, CODES)  -NO INFORMATION AVAILABLE (F CODE)	
NUMBER OF DITCHES, SURFACE RIGHTS NUMBER OF RESERVOIRS NUMBER OF WELLS	148 30 17