COPY FOR W. R. SMITH

ANNUAL REPORT

WATER DIVISION VII

REPORT PERIOD NOVEMBER 1, 1975 THRU OCTOBER 31, 1976

Submitted To

Mr. C. J. Kuiper

State Engineer

State of Colorado

bу

Wayne M. Crosby

Division Engineer

Durango, Colorado

December 8, 1976

Richard D. Lamm Governor



C. J. KUIPER State Engineer

DIVISION OF WATER RESOURCES

WAYNE M. CROSBY DIVISION WATER ENGINEER DIVISION 7
P. 0. BOX 551 Drawer 1959
DURANGO, COLORADO 81301 Office Phone: 247-1845

December 8, 1976

Mr. C. J. Kuiper State Engineer Colorado Division of Water Resources 1313 Sherman Street, Room 804 Denver, Colorado 80203

Dear Mr. Kuiper:

Attached herewith is our Annual Report for the period November 1, 1975 through October 31, 1976.

Very truly yours,

Wayne M. Crosby, P.E. Division Engineer

WMC:alf

XC: W.R. Smith

M.W. Mattern

O.J. Bell W.M. Crosby

File

	CONTENTO	FAGE
·		
I.	Introductory Statement	1
II.	Personnel	3
III.	WATER SUPPLY:	, *
	A. Snow Pack	6
	B. Precipitation - Summer	7
	C. Floods	7
	D. General - Water Budget	7
	E. Underground Water	7
	F. Transmountain Diversions	8
	G. Reservoir Storage	8
IV.	Agriculture	14
v.	COMPACTS AND COURT STIPULATIONS:	•
	I. San Juan Chama Diversion Project	14
	II. La Plata Project	15
VI.	A. Dams	16
	B. Livestock Water Tanks	16
VII.	WATER RIGHTS:	
	A. Tabulations	17
	B. Referee Findings and Decrees	17
ZIII.	ORGANIZATIONS:	
	A. Water Conservation and Conservancy Districts	18
	B. Organized Ditch Companies	18
IX.	WATER COMMISSIONERS'SUMMARIES	19
	Table A	21
x.	DIVISION ENGINEER'S SUMMARIES	19
	Table B - Direct Flow Diversions	22
	Table C - Storage Report in Acre Feet	. 23
ΥT	Division Engineer's Recommendations and Suggestions	20

1976 ANNUAL REPORT DIVISION 7 Durango, Colorado

Water Division 7, comprised of the San Juan River Basin located in Southwestern Colorado, was a Spanish territory for many years and later a part of Mexico. It was added to the United States after the Mexican War. Although the Basin was part of a large area ceded to the Ute Indians, adjustments of Indian land boundaries during the 1870's opened a large part to future settlers. With the arrival of the narrow gauge railroad in the 1880's, mining and the raising of livestock and farming increased.

Of slightly under 5,000,000 acres in the Basin, approximately half are federally controlled forest or woodlands. Land uses are for timber production, watershed, recreation, wildlife and agriculture. Of the 1.6 million acres of non-federal land, more than half is used for livestock grazing. Livestock grazing is also permitted on a large part of the federally controlled lands. The importance of rangeland and grazeable woodland as watersheds, overshadows all other considerations. Food and cover for wildlife is also of great importance.

Soils in the area are highly variable. They include deep, wind-deposited soils in the valleys, shale-derived clays in many valleys and adjoining slopes, and shallow, stony rocky soils over much of the mountain and foothill areas.

The geologic formations, along with the vegatative cover, make the San Juan Basin one of the most scenic areas in Colorado. Rocks ranging in age from one-to-five hundred million years are exposed here. They are crystalline, volcanic, and sedimentary in nature and of various geological ages.

Climate in the San Juan Basin differs with elevation. Variations are found in the mountainous foothill mesa and desert zones. A climatic feature common to all zones is that winter snow accounts for about half of the annual precipitation, averaging about twenty-one inches.

Most of the Basin has an elevation of over 6,000 feet, therefore, not only is the growing season limited (six months generally), but also the mean daily temperature. One hundred and ninety-five thousand acres of irrigated croplands produce crops of dry beans, 1/ pasture grass, hay, small grain, and corn.

The Basin is one of the most popular recreation areas in the state, with over twenty million dollars per year being spent on hunting and fishing alone. There are several big game animals indigenous to the area such as elk, deer, black bear, and big horn sheep. The western cottontail rabbit is the principal small game animal, while others include the snowshoe hare, squirrels, game birds, and waterfowl. The Basin provides good fishing both in the streams and lakes which provide an excellent habitat for Rainbow, Native Brown, and Brook Trout; Walleye, Northern Pike, and Kokanee Salmon.

Winter sports are an important activity with approximately 100,000 skier visits annually. At the Purgatory Ski Area, the largest of five ski areas, in or adjacent

^{1/} The Dove Creek area is the major producer of beans in Colorado. This is dryland farming with very little if any irrigation water used.

to the Basin, development now in progress will make the San Juan Basin a major attraction for skiers. Cross country skiing and snowmobiling are currently among the rapidly growing winter sports.

The Denver and Rio Grande Western Railroad conducts daily passenger tours every summer on its narrow gauge line between Durango and Silverton. Formerly a principal means of transporting heavy freight, the railroad was converted to passenger service mainly due to the curtailment of mining and the topographic nature of the Basin, making the construction costs of expansion too high. All freight moving into the Basin except from the South, must be transported by truck over the mountain passes. Highway construction and maintenance is costly due to the terrain and unstable shale soils, but cheaper than railroad construction.

The growth of the San Juan Basin is dependent on certain other utilities and their respective services such as the availability of telephone, electric, and natural gas. These are available in most communities, and as of 1976, telephones were modernized by the installation of direct distance dialing.

There is a definite need for rural water and sewage disposal systems. A short-age of underground water and the limitations of certain soils for septic systems create problems. This is particularly important at a time when rapid growth of subdividing of farms and ranches for housing developments is taking place. Home construction and recreational developments have been on the rise in rural areas in recent years, with more rapid increase projected for the future.

Clean air and clear water are among the valuable resources of the area. Pollution of these resources must be eliminated. The most common source of water pollution in the San Juan Basin is sediment resulting from soil erosion. The lack of plant cover accelerates the runoff from snow melt and rain, leading to critically eroded areas. Deep gullies are the most obvious feature of these areas. Wind erosion on dry crop land is less critical generally, but is serious in some localized areas and contributes to air pollution. Air pollution on prevailing westerly winds from the Four-Corners Power Plant near Shiprock, New Mexico, previously of major concern in the area, has been greatly alleviated by the installation of a scrubber. Pollution such as lumber mills, is of a minor extent.

Water is the most important resource in the San Juan Basin. Of the total annual water supply, approximately 270,000 acre feet are used locally. There are slightly over 195,000 acres of irrigated land within the Basin at the present time. Water will be available for an additional 250,000 acres in the western part of La Plata County and dryland areas of Dolores and Montezuma Counties with the proposed Aninas-La Plata and Dolores Projects. There are nine major irrigation systems which distribute water to seventy percent of all irrigated crop lands in the San Juan Basin. They are listed in this report with other pertinent data concerning the administration of water in Division 7 for the year 1976.

^{2/} The change in mode of transportation also must be considered as a reason for the lack of railroad expansion.

^{3/} Subject to change depending on cost-benefit.

II. PERSONNEL

The following changes in personnel occurred during the reporting period:

June 1, 1976 Edward W. Blank transferred from Division II to Division

VII, filling a position vacated by Kenneth Cooper as of

October 1, 1975 as Water Resource Engineer "C".

August 1, 1976 Ann Fauth to Secretary 1-B

October 1, 1976 Glen Humiston to Water Commissioner "C"

A realignment of the Division Staffing Pattern was made and submitted to Denver with corresponding forms P.C.-8.

July 1, 1976 salary increases based on salary surveys conducted in the area of the "front range" were funded. This differs from the previous year where only the Denver Area was considered. The result was a lower percentage of increase. Seventy percent of the people employed by the state of Colorado live and work in the immediate Denver area. An additional ten to fifteen percent were added up by enlarging the area.

The twelve-cent-per-mile reimbursement continues to be an unaffordable subsidy by those who drive their own vehicles in the course of their duties. Governor Lamm reneged on the last day of the time period for putting items on his call. With the exception of two or three water commissioners, all of Water Division VII is four-wheel drive territory. Operating costs continue to increase causing the break-even point to become further out of reach.

The Division staff and staffing pattern is shown on the following two pages.

DIST. ADM
W.C.*C.*C
DIST. 71 DIST. 69 Disapp. Cr DIST. ADM Dolores 32, 34, 69, 71 SENIOR W. C. DISTRICTS DIST. ADMIN. DIST. ADM.
W.C. "B"
DIST. 32
MCELMO Cr DIST. ADM W. C. B. DIST. 34 Mancos R. ಭ DIST. ADMIN.
W.C. "C"
DISTRICT
33 La Plata R. HYDROGRAPHER ູ້ບ W.R.E. DIST. ADMIN.
W.C. "G"
DISTRICT Animas River DIST. ADM. W.C. B. Florida R. DIVISION ENGINEER
W.R.E. 5 ASST. DIV. ENGINEER W.R.E. 3 DIST. ADMIN.
W.C. "C"
DISTRICTS
31, 46 Siembritas Ar. DIST. ADM DISTRICT Pine River DIST. ADM. W.C. "B" DIST. 78 SECRETARY 1-B DIST. ADMIN. SENIOR W. C. DISTRICTS 29, 77, 78 DIST. ADM.
W.C. "B"
San Juan-NIST. ADM. Chama Proj DIST, 77 Blanco R. Navajlo R. DIST. ADM.
W.C."C"
DIST. 29
San Juan R DIV. GROUNDWATER ASSISTANT W.C. "C"

PROPOSED ORGANIZATIONAL CHART

FOR DIVISION OF WATER RESOURCES DIVISION 7

DURANGO, COLORADO

Revised 10/1974 Wayne M. Crosby, Division Engineer

II. PERSONNEL (Continued)

NOVEMBER 1, 1975 TO OCTOBER 31, 1976

MONTHS BUDGETED/

NAME	POSITION	GRADE	WORK	ED	MILEAGE
Wayne M. Crosby	Division Engineer	P.E. V	12	12	1,308 P 11,245 S*
Orlyn J. Bell	Asst. Div. Engineer	P.E. III	12	12	1,873 P
Edward W. Blank $\frac{1}{2}$	Hydrographer	P.E. II	5	, 5	8,447 S
Ann-L. Fauth	Secretary	Sec. $1-B^{\frac{2}{2}}$	12	, 12	330 p**
FULL TIME EMPLOYEES	- FIELD	MC	ONTHS BUD	GETED/	
NAME	POSITION	RIVER BASIN	WORKE		MILEAGE
E. Ivan Danielson	Water Comm. B	Animas River	12	12	8,860 P
George E. Davis	Water Comm. B	Florida River	12	12	8,405 P 6,757 S
George Edmonson	Water Comm. A	McElmo Creek	12	12	7,821 P 5,106 S
Glen E. Humiston	Water Comm. C ^{3/}	Mancos R., McElmo Cr., Dolores R., Disappointment Cr.	12	12	15,043 S
J. Russell Kennedy	Water Comm. B	La Plata River	12	12	13,659 P
William P. Lynn	Water Comm. B	Blanco, Navajo, Piedra, San Juan Rivers	12	12	8,930 P
Larry Nielsen	Water Comm. B	Navajo/Blanco R.	12	12	6,715 P 4,296 S
Avrit G. Sparks	Water Comm. B.	Pine R./Siembritas	12	12	12,837 P
Wilford E. Speer	Water Comm. B	Dolores R., Disappointment Cr.	12	12	16,070 P
PERMANENT PART-TIME	EMPLOYEES - FIELD				
Roy M. Brown, Jr.	Water Comm. A	San Juan R., Lower Blanco R.	7	8	4,371 P 7,525 S
Ronald R. Robinson	Water Comm. A	Piedra River	. 5	6	6,161 P
Bob R. Shahan	Water Comm. A	Blanco/Navajo R.	4	4	2,392 P
Lawrence J. Shock	Water Comm. A	Siembritas Cr., Lower Pine River	8	8	8,519 P
		TOTAL	173	175	107,921 P 50,894 S
	GRANI	D TOTAL MILES DRIVEN	IN DIVIS	SION	158,815***

^{*} Vehicle #5313 used by Division Engineer, Assistant, Hydrographer and Dam Section personnel

^{**} Secretary's personal mileage used for keypunching, not reimbursed by the State

^{1/} Transferred to Division VII June 1, 1976

2/ To Secretary "B" August 1, 1976

3/ To Water Commissioner "C" October 1, 1976

*** This is 11,242 less miles than driven in the 1974-1975 period

Private Vehicle

State Vehicle

III. WATER SUPPLY

A. SNOW PACK (Winter 1975-1976)

The San Juan Basin received a normal snow pack this year with the weather cooperating to bring the runoff along on schedule. All streams were average to slightly above. April first forecasts proved to be accurate and are listed below. This was the second year for our participation in snow courses on the Mancos and La Plata Rivers, with good correlation between water content and actual runoff.

	NO. OF	THIS YEAR'S WA	TER CONTENT
	COURSES	AS A PERCEN	TAGE OF
SNOW PACK	AVERAGED	LAST YEAR	AVERAGE
Animas River	6	75	117
Dolores River	4	61	104
San Juan River	4	73	118
La Plata River	1	60	103 (10 yrs.)
Mancos River	1	61	75 (2 yrs.)

APRIL THRU SEPT.

	(1000 A.F.)	% OF	15 YEAR	THIS	% OF
WATER SUPPLY	FORECAST	AVERAGE	AVERAGE	YEAR	LAST YEAR
Animas River at Durango	450	111	423	364	53
Dolores River at Dolores	255	116	232	212	56
La Plata River at Hesperus	24	. 121	24	21	50
Piedra River at Arboles	215	119	185	192	89

		FLOW PERIOD	
STREAM SUPPLY OUTLOOK	SPRING	SUMMER	FALL
Florida River	Excellent	Good to fair	Fair to poor
San Juan River	Excellent	Good	Fair
Piedra River	Excellent	Good	Fair .
Animas River	Excellent	Good	Fair
Dolores River	Excellent	Good to fair	Fair to poor

Through spring and early summer water supplies were above average. However, no rain was received until mid-July, and none after that, resulting in below-average stream flows.

SOIL MOISTURE

Soil moisture in most of the watersheds in the San Juan Basin is determined from a relatively thin top soil. In addition, water bearing strata is exposed in the watersheds being recharged at this point. These are two of the variables that make

soil moisture correlation poor at best.

I believe that a more accurate determination of ground water recharge could be made by deducting a percentage of potential runoff by drainage basin. This percentage could be determined from computed past records of snow course water content in acre foot runoff, compared with actual runoff.

III. WATER SUPPLY

B. PRECIPITATION (Summer 1976)

Below-normal precipitation produced a dry summer season, broken only by some rain in mid-July. An equally dry fall and winter followed with warm clear weather continuing until Thanksgiving. A light snow of two to four inches fell the Friday after Thanksgiving, bringing no appreciable moisture.

III. WATER SUPPLY

C. FLOODS

A slightly above-average snow pack and normal warming trend combined to prevent flooding this year. A dry fall was in contrast to a wet one considered by some as normal for this area.

III. WATER SUPPLY

D. WATER BUDGET FOR 1975

	_				
WATER	DISTRIC	<u>r</u>	SUPPLY - A.F.	DAMAND - A.F.	OUT OF DISTRICT - A.F.
	29		268,045	132,401	334,190
	30	•	472,811	220,972	511,385
	31		250,382	329.479	130,968 (10,388 A.F. to District 46)
	32		192,452	176,293	31,430
	33		32,282	38,897	12,016
	34		49,448	47,862	15,270
	46		10,388	7,747	10,601
	69		12,723	5,343	7,808
	71		145,144	70,196	249,200 (119,908 A.F. to District 32)
	77		72,197	61,023	74,148
	7 8		204,571	49,789	226,940
			1,710,443	1,140,002	1,603,956
				 	

III. WATER SUPPLY

E. UNDER GROUND WATER

The well printouts formerly used to make up this part of the report gave a break-down as to uses. However, the newer printout does not show the number of permits applied for, only those wells where the applicant has returned the beneficial use form. A comparison between the new printout with the old one shows deletion of some registered wells without any apparant reason, and does not have a breakdown on the different useages.

III. WATER SUPPLY

F. TRANSMOUNTAIN DIVERSIONS

	WATER	SOURCE OF	·	
NAME OF DITCH	DISTRICT	SUPPLY	RECIPIENT	AMOUNT A.F.
Pine R. Weminuche Pass (Fuchs Ditch)	31	Pine River	Leland & Harley Fuchs Del Norte, CO	227
Weminuche Pass Ditch (Raber-Lohr Ditch)	31	Pine River	Hilde Lohr & Leon Raber Del Norte, CO	2,210
Treasure Pass Diversion	29	San Juan River	Fred Falk, Del Norte, CO	278
Williams Creek Squaw Pass Diversion Ditch	5 78	Piedra River	Seaborn Collins, Navajo Development Co., Creede, CO	86
Don LaFont Ditch #1 E., South River Peak Ditch	78	Piedra River	Colo. Div. of Wildlife	174
Don LaFont Ditch #2 W., (Piedra Pass Ditch)	78	Piedra River	Colo. Div. of Wildlife	66
Carbon Lake Ditch	30	Animas River	Ouray Ditch Co., Montrose, C	0 355*
Red Mountain Ditch	30	Animas River	Ouray Ditch Co., Montrose, C	220*
Mineral Point itch	30	Animas River	Warren Gibbs, Ouray, CO	No structure
St. John Ditch	30	Animas River	Charles Gunn & W. Worley, Olathe, Colorado	No structure

^{*} Records are poor on Carbon Lake and Red Mountain Ditches due to charts not being changed on time. Carbon Lake Ditch flume also is bent, submerged, and full of stream bed material.

III. WATER SUPPLY G. RESERVOIR STORAGE

Division VII had good carryover storage going into 1976, however, a dry summer and fall depleted this.

Average supplies were stored this year but without a good or better snow pack, storage will be below-normal for 1977.

Reservoirs in this Division, noting their change in storage, are listed on the following pages.

IRRIGATION SEASON 11-1-75 THRU 10-31-76

IST.	NAME OF RESERVOIR	A.F. CAPACITY	SOURCE OF SUPPLY	LAST READING PREVIOUS YEAR	MAXIMUM STORAGE	LAST READING
32	A.M. Puett Reservoir	2,320	Summit Res. System	419	2,320	165
30	Animas Mountain Res.	17,640	Animas-LaPlata Projec	:t	Not Built	
29	Barrow Reservoir	12.97	San Juan River	13	13	13
34	Bauer Reservoir #1	229.5	Crystal Creek	24	230	7 5
34	Bauer Reservoir #2	1,393	Crystal Creek	966	1,393	898
71	Bear Creek Reservoir	7,261.49	Dolores River		Not Built	
77	Beaver Creek Reservoir	1.42	Navajo River	2	2	2
34	Beaver Lake No. 1	(?)			Not Built	
71	Beaver Reservoir	16,210	Dolores River	•	Not Built	
31	Bellflower Retention Res.	59.8	Pine River	30	30	30
69	Belmear Lake Reservoir	445.0	Rincone Creek	0	353	326
78	Bennett Reservoir	1.512	Stollsteimer Creek	2	2	2
77	Bigbee Coyote Dam & Res.	1,371.3	Coyote Creek		Not Built	
77	Bigbee-Archuleta Res.	2,470	Blanco R. (Transbasin	1)	Abandoned	
71	Big Pine Reservoir	459.19	Turkey Creek	357	459	209
29	Blanco Retaining Pond	68.0	Blanco River	68	68	68 -
30	Bondad Reservoir	478,000	Animas-LaPlata Projec	:t	Not Built	
29	Born's Lake Reservoir	67.879	W. Fork San Juan Rive	er 68	68	68
29	Bramwell Reservoir	1.749	Little Blanco River		2	2
29	Bramwell Reservoir #2	0.424	Little Blanco River	1	1	1
29	Bramwell Reservoir #3	1.555	Little Blanco River	2	2	2
29	Brown Reservoir	5.44	Little Blanco River	5	5	5
71	Buck Pasture Reservoir	53.94	Trib. to Beaver Creek	0	54	0 -
32	- Cahone Reservoir	13,800	Dolores River		Not Built	
30	Cascade Reservoir	23,352	Cascade Creek	10,038	2,791	13,665
30	Cascade Reservoir #3	97.8	Cascade Creek	Power	Stabilizat	tion
30	Cinder Butte Reservoir	24,800	Animas River	Trans. to	Ridges Basin-N	Not Built
30	Clifty Lodge Reservoir	1.43	Elbert Creek	1	1 2	1
30	Columbine Reservoir Enlge	3 83	Little Cascade Creek		Not Built	
77	Columbine Reservoir	5.10	Little Navajo River	5	5	5
77	Confar Hill Reservoir	0.50	Coyote Creek	1	1	1
34	Coppinger Reservoir #1	35.46	Summit Res. System	15	18	15
34	Coppinger Reservoir #2	13.84	Summit Res. System	1	14	1
77	Coyote Park Reservoir	1.21	Coyote Creek	1	1	1
29	Crescent Lake	26.24	White Creek	26	26	26
29	Daily Hott Reservoir	409.6	McCabe Creek		Not Built	
71	Dawson Reservoir	37,380.51	Dolores River		Not Built	
29	Dry Gulch Reservoir	0.123	San Juan River	1	1	1
32	Ducks Nest Reservoir	625.6	Monument Creek	71	71	71
30	Duck Slough-Andrews Lake	131.38	Animas River	125	131	131
69	Dunham Reservoir	78.75	Disappointment Creek	79	79	79
78	Dunnagan Reservoir	93.48	Devil Creek	93	93	51
30	Durango Regulatory Res.	227	Animas-Florida River		Stabilizat	
30	Durango Reservoir	140,000	Animas River		Not Built	
2.5	•					

			IRRIG	ATION SEASON	11-1-75 THRU	10-31-76
IST.	NAME OF RESERVOIR	DECREED A.F. CAPACITY		ST READING EVIOUS YEAR	MAXIMUM STORAGE	LAST READING
30	Durango Reservoir #1	2,220	Florida River	400	400	400
30	Durango Reservoir #2	570.0	Florida River	570	570	570
30	Durango Reservoir #3	42.5	Florida River	42	42	42
30	Durango Reservoir #4	440.0	Florida River	440	440	440
29	East Fork San Juan Res.	35,200	E. Fork San Juan River		Not Built	
29	Echo Canyon Reservoir	2,148.79	Echo Creek	2,149	2,149	2,149
29	Echo Dam & Reservoir	1,798.41	Echo Creek		Not Built	
29	Echo Reservoir	2.2	Echo Creek	2	2	2
29	Echo Reservoir #2	6.78	Echo Creek	7	7	7
31	Emerald Lake Reservoir	7,077.7	Lake Fork/Pine River	No Storage	Dam Breach	ıeđ
29	Eight Mile Reservoir	1.17		1	1	1
71	Ethel Belmear Reservoir	87.30	Unnamed Draw	87	87	87
77	Fall Creek Reservoir	4.67	Fall Creek	5	5	5
77	Fall View Reservoir	7.78	Aspen Cr./ Navajo River	(1)	8	8
29	Fawn Gulch Reservoir	0.63	San Juan River	1	1	1
31	Fitzgerald Irr. Sys. Res.		Crowbar Creek	2.5	2.5	2.5
33	Fellers Reservoir	1.6	Big Stick Ditch	0	1.6	0
30	Florida Res. & Canal					
	(Pastorius Reservoir)		Florida River	_	Stabilizat	
31	Fredrick Reservoir No. 2		Pine River	0	3	0
29	Freemans Lake & Spring	4.0		4	4	4
78	Friend Reservoir No. 1	*** **********************************	Yellowjacket Creek	Santa de la Carlo de la Car Carlo de la Carlo de la Car	Not Built	
29	Gale Reservoir #1		Blanco River	10	10	10
29		6.89		7	7	. 7
29	Gale Reservoir #3		Blanco River	11	11	11
77	Gardner Lake Reservoir	23.16	Gardner Lake Cr./ Little Navajo River	15	23	15
69	Garner Reservoir	36.97	Bear Creek	10	37	37
71	Glade Reservoir #2	500	Glade Draw/Dolores R.		Not Built	
71	Glade Reservoir	(?)			Not Built	
30	Gregg Reservoir	1.802	Florida River	2	2	2
71	Groundhog Reservoir	21,710	Fish Creek	9,236	20,389	7,480
78	G. S. Hatcher Reservoir	1,730	Martinez Creek	1,735	1,735	1,386
29	Harris Bros. & Boone #1	33.24	Branch Creek	0	60	56
29	Harris Bros. & Boone #2	205.3	Branch Creek	206	206	160
29	Harvey Lake	4.0	Square Top Creek	4	4	4
29	Hatcher Retaining Pond	6.87	West Fork San Juan R.	7	7	7
30	Haviland Lake Reservoir	303.86	Elbert Creek	170	170	0
33	Hay Gulch Reservoir	56,330	Hay Gulch		Not Built	
30	Henderson Lake	57.8	Trib. Animas River	58	58	5 8
78	Hersch Reservoir	32.04	Stollsteimer Creek		Rebuilding	
30	Hermosa Park Reservoir	300	Hermosa Creek		Not Built	
77	Hidden Lake Reservoir	14.92	Indian Creek	5	5	5
29	Hidden Valley Reservoir	191.637			Not Built	
30	Highland Mary Reservoir	650.0	Animas River	400	400	400
	•					

30 Hotter Brothers Lake	IST.	NAME OF RESERVOIR	A.F.	SOURCE OF	LAST READING PREVIOUS YEAR	MAXIMUM STORAGE	LAST READING
100 Hourdsville Reservoir 10.9506 Rear Creek Not Built	30	Hotter Brothers Lake	39.36	Little Cascade Cr.	39	39	39
Hutchinson Reservoir 2.29 San Juan River 0	30	Howardsville Reservoir	90,700	Animas-La Plata Projec	ct	Not Built	
29 Hydeaway Ranch Reservoir 2.29 San Juan River 0	30	Hutchinson Reservoir	10.9596			Not Usable	
29 Hydeaway Ranch Reservoir 2.29 San Juan River 0 4 2	78	Hutchinson Reservoir	3.0	Stollsteimer Creek		Not Built	
10 Ice Lake Reservoir 416.20 Elbert Creek 403 416 400 400 34 34ckson Gulch Reservoir 9,980 west Mancos River 5,760 9,980 5,436 31 Jeffries Pond No. 1 1.0 Pine River 1 1 1 1 1 1 1 1 1	29	Hydeaway Ranch Reservoir	2.29	San Juan River	o		2
34 Jackson Gulch Reservoir 9,980 West Mancos River 5,760 9,980 5,436 31 Jeffries Pond No. 1 1.0 Pine River 1 1 1 1 31 Jeffries Pond No. 2 3.0 Pine River 3 3 3 30 Keiersch Reservoir #1 1.74 San Juan River 2 2 2 30 Johansing-Vinnel Fish Res. 4.0 Florida River 4 4 4 30 Keeler Reservoir 487.5 Elbert Creek 488 488 488 77 King Dam No. 1 4.0 Navajo River 1 4 1 77 Kruger Reservoir 73.33 Bauer Reservoir System 5 70 0 30 Lake Carol Reservoir 8.10s Plorida River 8 8 8 8 Lake Sar Reservoir 8.10s Plorida River 8 8 8 8 Lake Sar Reservoir 8.10s 1 1 1			416.20	Elbert Creek	403	416	
31 Jeffries Pond No. 1 1.0 Pine River 1 1 1 1 1 1 1 1 1	34	Jackson Gulch Reservoir	9,980	West Mancos River	5,760		
31 Jeffries Pond No. 2 3.0 Pine River 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	31	Jeffries Pond No. 1	1.0	Pine River	1	· _	
29 Joe Hersch Reservoir #1 1.74 San Juan River 2 2 2 30 Johansing-Vinnel Fish Res. 4.0 Florida River 4 4 4 4 4 30 Keeler Reservoir 487.5 Elbert Creek 488 488 488 488 31 Keing Dam No. 1 4.0 Navajo River 1 4 1 77 Kruger Reservoir #2 9.0 0il Well Creek 9 9 9 34 L.A. Bar Reservoir 73.33 Bauer Reservoir System 5 70 0 35 LeU Lakes 3.25 Florida River 3 3 3 3 36 Lake Carol Reservoir 8.109 Florida River 8 8 8 8 48 Lake Forest Dam 500 30 Lake Grost Dam 500 30 Lake Susan Reservoir 17.459 Florida River 18 18 18 18 31 Lapp Davia Res. System 1.70 Cherry Creek 0 2 0 32 Lapp Home Res. System 0.40 Cherry Creek 0 1 0 33 Lapp Home Res. System 2.25 Cherry Creek 0 1 0 34 Lapp Rorth Rese. System 2.25 Cherry Creek 0 1 0 35 Lapp Rorth Rese. System 40,240 Florida River 20,414 35,893 18,527 35 Lively Reservoir 40,240 Florida River 20,414 35,893 18,527 36 Lively Reservoir 15 KcElmo Creek 997 997 997 37 Lobato Reservoir (Peck)	31	Jeffries Pond No. 2	3.0	Pine River	3	3	
30 Johansing-Vinnel Fish Res. 4.0 Florida River 4 4 4 4 4 4 4 6 6 6	29	Joe Hersch Reservoir #1	1.74	San Juan River	2	2	,
77 King Dam No. 1 4.0 Navajo River 1 4 1 77 Kruger Reservoir #2 9.0 01 Well Creek 9 9 9 34 L A Bar Reservoir 73.33 Bauer Reservoir System 5 70 0 30 Lake Carol Reservoir 8.109 Florida River 3 3 3 78 Lake Garest Dam 500 500 500 500 500 30 Lake of the Pines 114.4 Little Cascade Creek 114 100 100 30 Lake Susan Reservoir 17.459 Florida River 18 18 18 31 Lapp Davis Res. System 1.70 Cherry Creek 0 2 0 31 Lapp Home Res. System 2.25 Cherry Creek 0 1 0 31 Lapp North Res. System 2.25 Cherry Creek 0 1 0 32 Lapp North Res. System 0.40 Cherry Creek 0 1		Johansing-Vinnel Fish Res.	4.0	Florida River	4		
77 King Dam No. 1 4.0 Navajo River 1 4 1 77 Kruger Reservoir #2 9.0 0il Well Creek 9 9 9 34 L A Bar Reservoir 73.33 Bauer Reservoir System 5 70 0 30 Lake Carol Reservoir 8.109 Florida River 3 3 3 78 Lake Garest Dam 500 30 Lake of the Pines 114.4 Little Cascade Creek 114 100 100 30 Lake Susan Reservoir 17.459 Florida River 18 18 18 31 Lapp Davis Res. System 1.70 Cherry Creek 0 2 0 31 Lapp Bowis Res. System 2.04 Cherry Creek 0 2 0 31 Lapp North Res. System 2.25 Cherry Creek 0 2 0 32 Lapp Ranch S. Stock Res. 0.80 Cherry Creek 0 1 0 32 Lape Ranch S. Stoc	30	Keeler Reservoir	487.5	Elbert Creek	488	488	488
77 Kruger Reservoir #2 9.0 01 Well Creek 9 9 9 34 L A Bar Reservoir 73.33 Bauer Reservoir System 5 70 0 30 L-U Lakes 3.25 Florida River 8 8 8 30 Lake Carol Reservoir 8.109 Florida River 8 8 8 8 Lake Forest Dam 500 10 14 114.4 114.1 100 100 30 Lake of the Pines 114.4 Little Cascade Creek 114 100 100 30 Lake Susan Reservoir 17.459 Florida River 18 18 18 31 Lapp Bome Rese. System 1.70 Cherry Creek 0 2 0 31 Lapp Rome Res. System 2.25 Cherry Creek 0 1 0 1 0 33 Lapp Rome Res. System 2.25 Cherry Creek 0 1 0 1 0 1 0 1	77	King Dam No. 1	4.0	Navajo River	1		
34 L A Bar Reservoir 73.33 Bauer Reservoir System 5 70 0 30 L-U Lakes 3.25 Florida River 3 3 3 30 Lake Carol Reservoir 8.109 Florida River 8 8 8 78 Lake Forest Dam 500 100 100 100 100 30 Lake Gusan Reservoir 17.459 Florida River 18 18 18 18 31 Lapp Davis Res. System 1.70 Cherry Creek 0 2 0 2 0 33 Lapp Home Res. System 0.40 Cherry Creek 0 1 0 1 0 1 0 2 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 <			9.0	e '	9		
1			73.33	Bauer Reservoir System	n 5	70	
1		L-U Lakes					
78 Lake Forest Dam 500 30 Lake of the Pines 114.4 Little Cascade Creek 114 100 100 30 Lake Susan Reservoir 17.459 Florida River 18 18 18 33 Lapp Davis Res. System 1.70 Cherry Creek 0 2 0 33 Lapp Home Res. System 2.25 Cherry Creek 0 2 0 33 Lapp Ranch S. Stock Res. 0.80 Cherry Creek 0 1 0 33 Lapp Ranch S. Stock Res. 0.80 Cherry Creek 0 1 0 33 Lapp Ranch S. Stock Res. 0.80 Cherry Creek 0 1 0 34 Lapp Ranch S. Stock Res. 0.80 Cherry Creek 0 1 0 35 Lemon Reservoir 40,240 Florida River 20,414 35,893 18,527 32 Lively Reservoir 15 McElmo Creek Not Built 78 Linn & Clark Reservoir 106.0 Dolores River 106 106 106 10		Lake Carol Reservoir	8.109	Florida River	8		
30 Lake Susan Reservoir 17.459 Florida River 18 18 18 33 Lapp Davis Res. System 1.70 Cherry Creek 0 2 0 33 Lapp Home Res. System 0.40 Cherry Creek 0 1 0 33 Lapp Ranch S. Stock Res. 0.80 Cherry Creek 0 1 0 30 Lemon Reservoir 40,240 Florida River 20,414 35,893 18,527 32 Lively Reservoir 15 McElmo Creek Not Built 78 Linn & Clark Reservoir 997.26 Martin Creek 997 997 997 33 Lobato Reservoir (Peck) Not Built Not Built 71 Lost Canyon Reservoir (Peck) Not Built Not Built 80 Lost Creek Irr. Res. 2.89 Lost Creek Not Built 90 Margwain Storage Reservoir 1.5 Alkali Canyon 0 0 0 90 Martinez Dam 2,900 Four Mile Creek Not Built Not Built 10 McGirr-Gomez Reservoir 5,100	78	Lake Forest Dam	500				
30 Lake Susan Reservoir 17.459 Florida River 18 18 18 33 Lapp Davis Res. System 1.70 Cherry Creek 0 2 0 33 Lapp Home Res. System 0.40 Cherry Creek 0 1 0 33 Lapp Ranch S. Stock Res. 0.80 Cherry Creek 0 1 0 30 Lemon Reservoir 40,240 Florida River 20,414 35,893 18,527 32 Lively Reservoir 15 McElmo Creek Not Built 78 Linn & Clark Reservoir 997.26 Martin Creek 997 997 997 33 Lobato Reservoir (Peck) Not Built Not Built 71 Lost Canyon Reservoir (Peck) Not Built Not Built 72 Lost Creek Irr. Res. 2.89 Lost Creek Not Built 30 Macy Reservoir 11.2 Animas River 0 0 0 31 Margwain Storage Reservoir 1.5 Alkali Canyon 0 0 0 32 Martinez Dam 2.900	30	Lake of the Pines	114.4	Little Cascade Creek	114	100	100
33 Lapp Davis Res. System 1.70 Cherry Creek 0 2 0 33 Lapp Home Res. System 0.40 Cherry Creek 0 1 0 33 Lapp North Res. System 2.25 Cherry Creek 0 2 0 33 Lapp Ranch S. Stock Res. 0.80 Cherry Creek 0 1 0 30 Lemon Reservoir 40,240 Florida River 20,414 35,893 18,527 32 Lively Reservoir 15 McElmo Creek Not Built 78 Linn & Clark Reservoir 997.26 Martin Creek 997 997 997 33 Lobato Reservoir (Peck) Not Equit 106 108 108 <td>30</td> <td>Lake Susan Reservoir</td> <td>17.459</td> <td>Florida River</td> <td>18</td> <td>18</td> <td></td>	30	Lake Susan Reservoir	17.459	Florida River	18	18	
33 Lapp North Res. System 2.25 Cherry Creek 0 2 0 33 Lapp Ranch S. Stock Res. 0.80 Cherry Creek 0 1 0 30 Lemon Reservoir 40,240 Florida River 20,414 35,893 18,527 32 Lively Reservoir 15 McElmo Creek Not Built 78 Linn & Clark Reservoir 997.26 Martin Creek 997 997 997 33 Lobato Reservoir (Peck) 106.0 Dolores River 106 106 106 29 Lost Creek Irr. Res. 2.89 Lost Creek Not Built 30 Macy Reservoir 11.2 Animas River 0 0 0 30 Margwain Storage Reservoir 1.5 Alkali Canyon 0 0 0 31 Meadows Reservoir 17,450 Not Built Not Built 33 Meadows Reservoir 17,450 Not Built Not Built 40 Nould Dairy Reservoir 400,000	33	Lapp Davis Res. System	1.70	Cherry Creek	0	2	0
33 Lapp Ranch S. Stock Res. 0.80 Cherry Creek 0 1 0 30 Lemon Reservoir 40,240 Florida River 20,414 35,893 18,527 32 Lively Reservoir 15 McElmo Creek Not Built 78 Linn & Clark Reservoir 997.26 Martin Creek 997 997 997 33 Lobato Reservoir (Peck) Post Creek 997 997 997 33 Lobato Reservoir (Peck) Lost Creek 997 997 997 34 Lost Creek Irr. Res. 2.89 Lost Creek Not Built 30 Macy Reservoir 11.2 Animas River 0 0 0 30 Margwain Storage Reservoir 1.5 Alkali Canyon 0 0 0 0 78 Martinez Dam 2,900 Four Mile Creek Not Built Not Built 30 McGirr-Gomez Reservoir 5 San Juan River Not Built Not Built Not Built 71	33	Lapp Home Res. System	0.40	Cherry Creek	• • • • • • • • • • • • • • • • • • •	1	0
30 Lemon Reservoir 40,240 Florida River 20,414 35,893 18,527 32 Lively Reservoir 15 McElmo Creek Not Built 78 Linn & Clark Reservoir 997.26 Martin Creek 997 997 997 33 Lobato Reservoir (Peck) 106.0 Dolores River 106 106 106 106 29 Lost Creek Irr. Res. 2.89 Lost Creek Not Built Not Built <td< td=""><td>33</td><td>Lapp North Res. System</td><td>2.25</td><td>Cherry Creek</td><td>0</td><td>2</td><td>0</td></td<>	33	Lapp North Res. System	2.25	Cherry Creek	0	2	0
32 Lively Reservoir 15 McElmo Creek Not Built 78 Linn & Clark Reservoir 997.26 Martin Creek 997 997 997 33 Lobato Reservoir (Peck) 106.0 Dolores River 106 106 106 71 Lost Canyon Reservoir 106.0 Dolores River 106 106 106 29 Lost Creek Irr. Res. 2.89 Lost Creek Not Built 30 Macy Reservoir 11.2 Animas River 0 0 0 32 Margwain Storage Reservoir 1.5 Alkali Canyon 0 0 0 0 78 Martinez Dam 2,900 Four Mile Creek Not Built Not Built Not Built Not Built 30 McGirr-Gomez Reservoir San Juan River Not Built Not Built Not Built 70 McGirr-Gomez Reservoir No. 1 286.76 Yellowjacket Creek Not Built Not Built 71 McPhee Reservoir 400,000 Dolores River Not Built Not Built 71 Mod Dairy Res. Dam No. 1 98.004 Dolores River Not Built 71 Mod Dairy Res. Dam No. 1 98.004 Dolores River Not Built 71 Mod Dairy Reservoir 5,100 Dol	33	Lapp Ranch S. Stock Res.	0.80	Cherry Creek	o	1	0
78 Linn & Clark Reservoir 997.26 Martin Creek 997 997 997 33 Lobato Reservoir (Peck) 106.0 Dolores River 106 106 106 71 Lost Creek Irr. Res. 2.89 Lost Creek Not Built 30 Macy Reservoir 11.2 Animas River 0 0 0 32 Margwain Storage Reservoir 1.5 Alkali Canyon 0 0 0 78 Martinez Dam 2,900 Four Mile Creek Not Built 33 Meadows Reservoir 17,450 Not Built 40 NocGirr-Gomez Reservoir San Juan River Not Built 78 McInnes Reservoir No. 1 286.76 Yellowjacket Creek Not Built 71 McPhee Reservoir 400,000 Dolores River Not Built 71 Mod Dairy Res. Dam No. 1 98.004 Dolores River Not Built 71 Morrison Reservoir 5,100 Dolores River Not Built 70 Muddy Creek Reservoir	30	Lemon Reservoir	40,240	Florida River	20,414	35,893	18,527
106ato Reservoir (Peck) 106.0 Dolores River 106 10	32	Lively Reservoir	15	McElmo Creek		Not Built	
Lost Canyon Reservoir 106.0 Dolores River 106 106 106 106	78	Linn & Clark Reservoir	997.26	Martin Creek	997	997	997
29 Lost Creek Irr. Res. 2.89 Lost Creek Not Built 30 Macy Reservoir 11.2 Animas River 0 0 0 32 Margwain Storage Reservoir 1.5 Alkali Canyon 0 0 0 78 Martinez Dam 2,900 Four Mile Creek Not Built 33 Meadows Reservoir 17,450 Not Built 29 McGirr-Gomez Reservoir San Juan River 78 McInnes Reservoir No. 1 286.76 Yellowjacket Creek Not Built 71 McPhee Reservoir 400,000 Dolores River Not Built 71 Mod Dairy Res. Dam No. 1 98.004 Dolores River Not Built 71 Monument Creek Reservoir 5,100 Dolores River Not Built 72 Muddy Creek Reservoir 8.16 Big Middy Creek 8 8 8 Narraguinnep Reservoir 20,710 Dolores River 7,000 20,710 9,538 69 North Draw Reservoir 13.64 North Draw 30 20 0	33	Lobato Reservoir (Peck)					
30 Macy Reservoir 11.2 Animas River 0 0 0 32 Margwain Storage Reservoir 1.5 Alkali Canyon 0 0 0 78 Martinez Dam 2,900 Four Mile Creek Not Built 33 Meadows Reservoir 17,450 Not Built 29 McGirr-Gomez Reservoir San Juan River 78 McInnes Reservoir No. 1 286.76 Yellowjacket Creek Not Built 71 McPhee Reservoir 400,000 Dolores River Not Built 71 Mod Dairy Res. Dam No. 1 98.004 Dolores River Not Built 71 Monument Creek Reservoir 5,100 Dolores River Not Built 72 Muddy Creek Reservoir 8.16 Big Middy Creek 8 8 8 8 8 32 Narraguinnep Reservoir 20,710 Dolores River 7,000 20,710 9,538 69 North Draw Reservoir 13.64 North Draw 30 20 0	71	Lost Canyon Reservoir	106.0	Dolores River	106	106	106
32 Margwain Storage Reservoir 1.5 Alkali Canyon 0 0 0 78 Martinez Dam 2,900 Four Mile Creek Not Built 33 Meadows Reservoir 17,450 Not Built 29 McGirr-Gomez Reservoir San Juan River 78 McInnes Reservoir No. 1 286.76 Yellowjacket Creek Not Built 71 McPhee Reservoir 400,000 Dolores River Not Built 71 Mod Dairy Res. Dam No. 1 98.004 Dolores River Not Built 71 Monument Creek Reservoir 5,100 Dolores River Not Built 69 Morrison Reservoir 8.16 Big Middy Creek 8 8 80 Narraguinnep Reservoir 20,710 Dolores River 7,000 20,710 9,538 69 North Draw Reservoir 13.64 North Draw 30 20 0	29	Lost Creek Irr. Res.	2.89	Lost Creek		Not Built	
78Martinez Dam2,900Four Mile CreekNot Built33Meadows Reservoir17,450Not Built29McGirr-Gomez ReservoirSan Juan River78McInnes Reservoir No. 1286.76Yellowjacket CreekNot Built71McPhee Reservoir400,000Dolores RiverNot Built71Mod Dairy Res. Dam No. 198.004Dolores RiverNot Built71Monument Creek Reservoir5,100Dolores RiverNot Built69Morrison Reservoir116.33Morrison Creek1161168077Muddy Creek Reservoir8.16Big Middy Creek88832Narraguinnep Reservoir20,710Dolores River7,00020,7109,53869North Draw Reservoir13.64North Draw30200	30	Macy Reservoir	11.2	Animas River	0	o ***	0
Meadows Reservoir 78 McGirr-Gomez Reservoir 78 McInnes Reservoir No. 1 79 McPhee Reservoir 70 McPhee Reservoir 71 Mod Dairy Res. Dam No. 1 72 Monument Creek Reservoir 73 Morrison Reservoir 74 Mody Creek Reservoir 75 Muddy Creek Reservoir 76 Muddy Creek Reservoir 77 Muddy Creek Reservoir 78 Morrison Reservoir 79 Muddy Creek Reservoir 70 Dolores River 81 Morrison Creek 8 Meadows Reservoir 82 Morrison River 83 Morrison Creek 84 Meadows Reservoir 84 Morrison Reservoir 85 Morrison Creek 86 Meadows Reservoir 86 Morrison Reservoir 87 Muddy Creek Reservoir 88 Meadows Reservoir 89 Morrison River 89 Morrison Creek 80 Meadows Reservoir 80 Morrison Reservoir 80 Morrison Creek 80 Meadows Reservoir 80 Morrison Reservoir 80 Morrison Creek 80 Meadows Reservoir 80 Morrison Reservoir 80 Morrison Creek 80 Meadows Reservoir 80 Morrison Reservoir 80 Morrison Creek 80 Meadows Reservoir 80 Morrison Reservoir 80 Morrison Creek 80 Meadows Reservoir 80 Morrison Reservoir 80 Morrison Creek 80 Meadows Reservoir 80 Morrison Reservoir 80 Morrison Creek 80 Meadows Reservoir 80 Morrison Reservoir 80 Morrison Creek 80 Meadows Reservoir 80 Morrison Reservoir 80 Morrison Creek 80 Meadows Reservoir 80 Morrison Reservoir 80 Morrison Creek 80 Meadows Reservoir 80 Morrison Reservoir 80 Morrison Creek 80 Meadows Reservoir 80 Morrison Reservoir 80 Morrison Creek 80 Meadows Reservoir 80 Morrison Reserv	32	Margwain Storage Reservoir	1.5	Alkali Canyon	0	0	0
McGirr-Gomez Reservoir San Juan River McInnes Reservoir No. 1 286.76 Yellowjacket Creek Not Built McPhee Reservoir 400,000 Dolores River Not Built Mod Dairy Res. Dam No. 1 98.004 Dolores River Not Built Monument Creek Reservoir 5,100 Dolores River Not Built Morrison Reservoir 116.33 Morrison Creek 116 116 80 Muddy Creek Reservoir 8.16 Big Middy Creek 8 8 8 Narraguinnep Reservoir 20,710 Dolores River 7,000 20,710 9,538 North Draw Reservoir 13.64 North Draw 30 20 0	78	Martinez Dam	2,900	Four Mile Creek		Not Built	
McInnes Reservoir No. 1 286.76 Yellowjacket Creek McPhee Reservoir 400,000 Dolores River Mod Dairy Res. Dam No. 1 98.004 Dolores River Monument Creek Reservoir 5,100 Dolores River Morrison Reservoir 116.33 Morrison Creek 116 116 80 Muddy Creek Reservoir 8.16 Big Middy Creek 8 8 8 Narraguinnep Reservoir 20,710 Dolores River 7,000 20,710 9,538 North Draw Reservoir 13.64 North Draw 30 20 0	33	Meadows Reservoir	17,450			Not Built	
McPhee Reservoir 400,000 Dolores River Not Built Mod Dairy Res. Dam No. 1 98.004 Dolores River Not Built Monument Creek Reservoir 5,100 Dolores River Not Built Morrison Reservoir 116.33 Morrison Creek 116 116 80 Muddy Creek Reservoir 8.16 Big Middy Creek 8 8 8 Narraguinnep Reservoir 20,710 Dolores River 7,000 20,710 9,538 North Draw Reservoir 13.64 North Draw 30 20 0	29	McGirr-Gomez Reservoir		San Juan River			
Mod Dairy Res. Dam No. 1 98.004 Dolores River Not Built Monument Creek Reservoir 5,100 Dolores River Not Built Morrison Reservoir 116.33 Morrison Creek 116 116 80 Muddy Creek Reservoir 8.16 Big Middy Creek 8 8 8 Narraguinnep Reservoir 20,710 Dolores River 7,000 20,710 9,538 North Draw Reservoir 13.64 North Draw 30 20 0	78	McInnes Reservoir No. 1	286.76	Yellowjacket Creek		Not Built	
71 Monument Creek Reservoir 5,100 Dolores River Not Built 69 Morrison Reservoir 116.33 Morrison Creek 116 116 80 77 Muddy Creek Reservoir 8.16 Big Middy Creek 8 8 8 32 Narraguinnep Reservoir 20,710 Dolores River 7,000 20,710 9,538 69 North Draw Reservoir 13.64 North Draw 30 20 0	71	McPhee Reservoir	400,000	Dolores River		Not Built	
69 Morrison Reservoir 116.33 Morrison Creek 116 116 80 77 Muddy Creek Reservoir 8.16 Big Middy Creek 8 8 8 32 Narraguinnep Reservoir 20,710 Dolores River 7,000 20,710 9,538 69 North Draw Reservoir 13.64 North Draw 30 20 0	71	Mod Dairy Res. Dam No. 1	98.004	Dolores River	•	Not Built	
77 Muddy Creek Reservoir 8.16 Big Middy Creek 8 8 32 Narraguinnep Reservoir 20,710 Dolores River 7,000 20,710 9,538 69 North Draw Reservoir 13.64 North Draw 30 20 0	71	Monument Creek Reservoir	5,100	Dolores River		Not Built	
32 Narraguinnep Reservoir 20,710 Dolores River 7,000 20,710 9,538 69 North Draw Reservoir 13.64 North Draw 30 20 0	69	Morrison Reservoir	116.33	Morrison Creek	116	116	80
69 North Draw Reservoir 13.64 North Draw 30 20 0	77	Muddy Creek Reservoir	8.16	Big Middy Creek	8	,· 8	8
	32	Narraguinnep Reservoir	20,710	Dolores River	7,000	20,710	9,538
78 O'Neal Park Reservoir 40,700 E. Fork Piedra River Not Built	69	North Draw Reservoir	13.64	North Draw	30	20	0
	78	O'Neal Park Reservoir	40,700	E. Fork Piedra River		Not Built	• · · · · · · · · · · · · · · · · · · ·

IRRIGATION SEASON 11-1-75 THRU 10-31-76

	Ţ	RRIGATION SEASON	11-1-75 THE	RU 10-31-76
DECREED	• ***			
A.F.	SOURCE OF	LAST READING	MAXIMUM	LAST
CAPACITY	SUPPLY	PREVIOUS YEAR	STORAGE	READING
530.6	Stollsteimer Creek	531	531	531

78	Pargin Reservoir	530.6	Stollsteimer Creek	531	531	531
78	Park Reservoir	0.52	Stollsteimer Creek	1	1	1
30	Patricia A. Sherwood Res.	3.7	Animas River	4	4	4
78	Piedra Retaining Pond	5.24	Piedra River	5	5	5
31	Pine R. Ret. Res. No. 1	98.32	Pine River		Flood Control	
31	Pine R. Ret. Res. No. 2	192.0	Pine River		Flood Control	
31	Pine Spring Ranch Res. #1	2.9	Beaver Cr./Pine River	1	1	1
78	Pinon Lake	161.85	Stollsteimer Creek	162	162	162
78	Poma Reservoir	26.53	Piedra River	27	27	27
77	Price-Kinny Reservoir	1.31	Coyote Creek	1	1	1
29	Proctor Reservoir	959.45	McCabe Creek		Not Built	
71	R.B. Coppinger Res. #1	16.16	Dolores River	0	16.16	0
34	Red Arrow Reservoir	6.04	Mid. Fork Mancos R.	Abandoned	Not Built	
33	Red Mesa-Ward Reservoir	1,176	Hay Gulch	354	1,210	321
30	Relay Retaining Pond Res.	19.54	Hermosa Creek		Not Built	
32	Robert Leighton Reservoir		McElmo Creek	36	37	36 -
71	Ruin Canyon Reservoir		Dolores River		Not Built	
29	San Juan Raw Storage Res.		San Juan River		Not Built	
29	San Juan River Rec. Res.	300			Not Built	
34	Sellers & McClane Res.		Summit Res. System	31	52	6
30			Trumble Draw/Florida R.		Stabilization	
29	Shoestring Reservoir		Mill Creek	1	1	1
30	Short Reservoir		Trumble Draw/Florida R.		Stabilization	
	Spiler Canyon Reservoir	1.5		2	2	2
	Spring Buck Reservoir 43				Not Built	
78		46.201	Spring Creek	2	46	16
77		41.007	Coyote Creek	272	272	16
29	Squaw Gap Reservoir	0.87	Little Blanco River	1	1	1
78		534.84	FourMile Cr./Transbasin	635	635	635
78		117.16	Yellowjacket Creek		Abandoned	
71	Summit Reservoir	4,287	Lost Canyon	2,794	4,287	937
29	Sunset Cottages Res. #1	18.03	San Juan River	18	18	18
29	Sunset Cottages Res. #2	22.95	San Juan River	23	23	23
29		00.860	McCabe Creek		Not Built	•
30	Tamarron Lakes #1 - #8	140.5		Plan of	Augmentation	
33	Taylor Reservoir	85.58	La Plata River	86	86	86
29	Thomas Reservoir	55.66	San Juan River	56	56	56
33		38,400	Animas-La Plata Project		Not Built	
77	Three Lakes Res. #1	3.40	Navajo River		Not Usable	
77	Three Lakes Res. #2	8.39	Navajo River	8	8	8
77	Three Lakes Res. #3	10.47	Navajo River	5 .	10	5
32	Totten Reservoir	3,400	Dolores River	1,755		1,857
78	Town Center Dam	600	Fourmile/Dutton,		·	
			Martinez Cr. (Transbasin) 600	600	600
29	Town of Pagosa Springs Res.	0.80	W. Fork San Juan River	1	.1	1
29	Trilsch Reservoir	2.76	Blanco River		Not Built	
			-12-			

NAME OF RESERVOIR

IST.

IRRIGATION SEASON 11-1-75 THRU 10-31-76

IST.	NAME OF RESERVOIR	A.F. CAPACITY	SOURCE OF SUPPLY	LAST READING PREVIOUS YEAR	MAXIMUM STORAGE	LAST READING
29	Trujillo Reservoir	18,300	San Juan River		Not Built	
78	Turkey Springs Reservoir	2.0	Stollsteimer Creek	2	2	2
30	Turner Pmp. Sta. & Ponds	84.0	Animas River	20	0	84
30	Turner Reservoir	472.37	Waterfall Creek	450	473	460
31	Vallecito Reservoir	129,675	Pine River	48,854	109,351	52,163
29	Valle Seco Reservoir	0.496	San Juan River	1	1	1
29	Wapiti Reservoir	257.157	Fourmile Creek		Not Built	
30	Warner Reservoir #1	13.0	Elbert Creek	13	13	13
30	Warner Reservoir #2	6.0	Elbert Creek	6	6	6
30	Warner Reservoir #3	0.8	Elbert Creek	1	1	1
30	Warner Reservoir #4	0.5	Elbert Creek	1	1	1
30	Warner Reservoir #5	23.0	Elbert Creek	23	23	23
30	Warner Reservoir #6	0.4	Elbert Creek	1	1	1
30	Warner Reservoir #7	0.3	Elbert Creek	1	1	1
30	Warner Reservoir #8	2.0	Elbert Creek	2	2	2
34	Weber Reservoir	441.8	Middle Mancos River	196	442	116
78	Weminuche Reservoir	5,700	Weminuche Creek		Not Built	•
29	West Fork Reservoir	39,356	W. Fork San Juan Rive	er	Not Built	
32	West Reservoir	6.0	McElmo Creek		Stabilizati	Lon
34	Wetherill Reservoir (U	nlimited)	Mancos River		Not Usable	
78	Williams Creek Reservoir	10,084	Williams Creek	10,084	10,084	10,084
29	Willow Draw Reservoir	1.06	Mill Creek	1	1	1
29	Wilson's Lake	7.025	Blanco River	7	7	7
71	Wiman Reservoir #3	2.0	Dolores River		Not Usable	
31	Wommer Reservoir #1	185.69	Little Bear Creek	133	186	41

DECREED

IV. AGRICULTURE

Montezuma and Dolores Counties lead the state in acres planted in dry beans. Although Montezuma County's production is non-irrigated, it rates third in Colorado; 94,000 acres were planted in 1974 compared to 107,000 in 1975. Production was up 26% over 1974 with the yield per acre increasing 21%. Quality is good. Price per hundred weight (cwt) in 1975 was down \$9.40 compared to 1974.

Total production value was \$8,444,000 in 1975, while in 1974 it was \$9,436,000. The main cause for the difference in income can be attributed to the drop in price per cwt. The current year (1976) forecast is 8% below 1975, but 9% more than 1974.

Hay production was up 6% over 1975. With a \$2.00 per ton increase in price received, production income was \$24,700,000 in 1976 as against \$22,438,000 in 1975.

The Livestock Index at 155 (1966-68 average) was still \$3.40 below a year ago. Steers and heifers at \$37.50 per cwt were \$4.50 below September 1975. The index prices received by southwest Colorado farmers at mid-September for crops and livestock increased one point from mid-August. The index at 165 percent (1966-68 average) was 12% lower than one year ago.

V. COMPACTS AND AGREEMENTS

I. THE SAN JUAN-CHAMA DIVERSION PROJECT

A trial date of December 27, 1976 has been set for the Shutz vs Stamm Case to be tried in Federal Court with Judge Matsch presiding. Exhibits have been prepared and will be viewed prior to the trial (December 4, 1976). Also, a pre-trial conference will be held although a date has not been set.

The main complaint by the plaintiffs is the damage caused by sluicing to headgates, ditches, meadows and fishlife; secondly the extinction of the fishery due to insufficient bypass flows in the Navajo and Blanco Rivers.

A trip was taken to Albuquerque to gather data for the court exhibits. The Bureau of Reclamation figures were used to draft the exhibits. Another trip was taken to Denver to view what the Bureau of Reclamation modeled as a solution to the sluicing problem. The decision to be made was whether or not this would be entered as evidence.

Although demonstrated as a solution to the sluicing problem, in reality the river material was moved from behind the diversion dam to just below where it is still injurious to Colorado water users. The only benefit derived would be to prevent stream bed material from entering the diversion tunnel.

The Jicarilla-Apaches, represented by attorney Bob Nordhaus, may withdraw as a party to the Shutz vs Stamm suit, after some concessions were made by the BuRec to them (rumored to be 26,000 A.F. of Colorado Project Water) and promises to build some dams on the reservation. The Apaches entered the litigation on the side of the plaintiffs.

Several calls were made by this office to maintain minimum flows as directed in the Decrees by the Colorado Water Conservation Board. The Bureau of Reclamation no longer officially refuses the calls, but now just ignores any request by Colorado without benefit of an answer.

Some notification of sluicing was received without a definite date being named. The "either Monday or Tuesday" type of notification, in my opinion, is intentional harrassment.

Calls for small amounts of increased bypass to Colorado users (under 10 c.f.s.) were all refused, although there were large amounts being diverted to New Mexico.

II. THE LA PLATA RIVER COMPACT

Irrigation out of the interstate ditches began March 26, 1976 with the request by the New Mexico Compact Commissioner for a split on available water quickly following. The division of water continued through the spring and early summer.

From July 1 through July 3, the river flow at Hesperus fell below the point where it was reasonable to pass water through to satisfy Compact committments. Colorado placed the river under a futile call and began diverting that water. This is in some contrast to last year when it wasn't necessary to split or curtail diversion until July 14.

There was no abnormally high water this year and diversion structure damage varied from very little to none.

Precipitation was good in June, July and September, with August, October, and November having no more than traces of moisture. Soil conditions now are extremely dry and there still is no snow even high on the La Plata Mountains.

VI. DAMS

With a normal runoff, most reservoirs filled as expected with no reported damage due to snow melt.

There were two emergencies this year; Electra Lake dam (again) and Haviland Lake dam. The problem at Electra Dam was the same as last year, with the fines washing out from between the large rocks. The damage last year was successfully repaired. This year's leak occurred further west near the lake level recorder. Emergency repairs were made (sandbags) and permanent repairs made similar to last year.

The valve at Haviland Lake outlet was found to be stuck when checked. Divers were brought in from Farmington, New Mexico. After the inspection by divers, the lake was drained to repair the outlet gate. An exchange of water was arranged with Electra Lake by the Water Commissioner, so that Haviland Lake could be refilled. Problems were encountered here when the Division of Wildlife personnel ignored a beaver dam in the inlet to the lake after they had been told about it. Approximately nineteen acre feet of water were lost downstream.

Several inspectors from the Dams Section visited the area this year. From these inspections, letters were written to reservoir owners outlining maintenance programs, etc. Compliance with orders was generally good throughout the Division, although follow-up letters were necessary to receive communication from owners for work completed.

VI. DAMS

B. LIVESTOCK WATER TANKS

Stocktank and/or erosion control dam permits were issued in individual districts as follows:

DISTRICT	NUMBER OF PERMITS ISSUED
29	16
30	1
31	14
32	1
33	2
34	3
46	0
69	4
71	2
77	0
78	2
TOTAL ISSUED	 45
TOTAL ISSUED	40

VII. WATER RIGHTS

A. TABULATION

Division VII personnel processed the 1975 W-case numbered Decrees and converted them to 1,914 keypunched cards for addition to the Water Rights Tabulation. In addition to the new entries, six hundred and eleven (611) line corrections to the October 10, 1974 Tabulation have been keypunched and sent in. These corrections are very judiciously reviewed and take considerable time to spot and process.

In many cases, personnel contact the water right owner(s) involved, when there are discrepencies between existing conditions and the Decree, and can get them to make application to the court for the proper revision.

The exactness required of the Tabulation is always demanding and at times, quite exasperating.

VII. WATER RIGHTS

B. REFEREE'S FINDINGS AND DECREES

		•	INVESTIGATED		**
		NO. FILED	BY DIVISION VII	REFEREE RULINGS	COURT DECREES
1.	Underground Water Rights	17	17	. 12	16
2.	Change of Water Rights	26	31	29	46
3.	Plans of Augmentation	8	7	4	4
4.	Surface Water Rights	48	43	36	44
5.	Due Diligence:				
	Quadriennial Findings	110	109	102	104
	Conditional Made Absolute	43	39	34	36
6.	Water Storage Rights	3	3	3	3
	•				
	TOTALS	2 55	249	220	253
					· · · · · · · · · · · · · · · · · · ·

Quite a number of applications were received during the latter part of the last reporting year and were subsequently investigated and a ruling made by the referee after the new calendar year began.

After the U.S. vs Akin decision in Federal Supreme Court, Judge Eakes, Division VII, Sixth Judicial District Judge, wrote a "FINDINGS OF LAW OF CASE AND ORDER" dated October 6, 1976, and setting a trial date of December 6, 1976 for Federal Water Cases W-1120-73 through W-1139-73 and W-1143-73 through W-1148-73. Federal trial attorney for the Department of Justice, Hank Meshorer, immediately filed a "MOTION TO VACATE FINDINGS OF LAW OF CASE AND ORDER AND, IN THE ALTERNATIVE, MOTION TO POSTPONE TRIAL DATE INDEFINITELY". This was mailed October 22, 1976. Mailed on November 2, 1976 and filed in the Supreme Court, was a Motion for "ENLARGEMENT OF TIME FOR A PERIOD OF 30 DAYS FROM THE DATE OF THE RULING BY THE WATER COURT FOR WATER DIVISION NO. 7 UPON THE UNITED STATES OF AMERICA'S MOTION TO VACATE FINDINGS OF LAW OF CASE AND ORDER AND, IN THE ALTERNATIVE, MOTION TO POSTPONE TRIAL DATE INDEFINITELY WITHIN WHICH TO FILE A PETITION FOR CERTIORARI TO THE COLORADO SUPREME COURT". As of this date nothing has been received granting either Federal Motion.

Eaton International's Plan of Augmentation is progressing according to the runoff and return flow formula developed by their engineers. They will probably petition the Water Court for an Absolute Decree early next year. A meeting was held in November with Golf Host International (Tamarron) discussing progress made by them toward

finalizing their operation and progress toward an Absolute Decree. They have signed a ten-year contract with Colorado Ute Electric for backup water from Electra Lake.

Several minimum flow Decrees have recently been received from the Colorado Water Conservation Board under Statutes C.R.S. 1973 37-92-102(3) and 37-92-103(4), enabling that agency to file.

While previous filings by the Colorado Water Conservation Board were on streams where there was either surplus water or storage set aside to maintain minimum flows, these recent filings are on streams that do not, nor is there any statement of how the Board is to acquire water to maintain these flows. Also, several minimum lake level filings have been received on U.S. Forest Service land where C.R.S. 37-92-103(4) is being complied with under Federal Acts. Filings on over-appropriated streams where supplies are not sufficient to maintain minimum flows is an exercise in futility. A minimum flow Decree where water is not available also precludes the development of ground water in that drainage basin.

No attempt has been made by the Colorado Water Conservation Board to enforce their minimum flow decrees on the Navajo and Blanco Rivers where there is water available to maintain them but is being diverted by the Bureau of Reclamation to New Mexico.

VIII. ORGANIZATIONS

WATER CONSERVATION AND CONSERVANCY DISTRICTS

NAME	ADDRESS	ATTORNEY	PRESIDENT
La Plata Water Conservation	Box 497 Durango	F.S. Maynes	V. A. Paulek
Dolores Water Conservancy	16 E. Main Cortez	George Armstrong	Bruce McAfee
Florida Water Conservancy	Box 1157 Durango	L.W. McDaniel	Loyd Hess
Mancos Water Conservancy	Cortez	Guy Dyer	Noland Alexander
Pine River Irrigation Dist.	843 Main Durango	Robert Duthie	Frank Wommer, Jr.
San Miguel Water Conservancy	Box 497 Durango	F.S. Maynes	George M. Young
Southwest Water Conservation	Box 497 Durango	F.S. Maynes	Fred Kroeger

VIII. ORGANIZATIONS

B. INCORPORATED DITCH COMPANIES

NAME	OFFICER		ADDRES	<u>s</u>	
DISTRICT 29	William Jackson				
Echo Ditch Company			_	Colorado	
Park Ditch Company	Hood Formwalt	Pagosa	Springs,	Colorado	
DICMPICE 20					
DISTRICT 30					
Animas Ditch Company	R. V. Bonds	Rt. 2,	Box B61,	Durango, Co)
Animas Consolidated Ditch Co.	Bernard Colby			Colorado	

1	Incorporated Ditch Companies continue	đ	
ATCMPTC5	I 30 (continued)	OFFICER	ADDRESS
JISTRICI	C 30 (continued)	T. G. Eggleston	135 Riverview Dr., Durango, CO
	Florida Canal Company Florida Farmers Ditch Co.	Hazel Brown	505 CR 234, Durango, Colorado
	Hermosa Ditch Company	Ted Harer	Rt. 1, Box 397C, Durango, CO
-	· · · · · · · · · · · · · · · · ·	Roy Annala	122 CR 510, Durango, Colorado
	Pioneer Ditch Company	Animas Valley Ditch	2815 Main Ave., United
	Reid Ditch Company	Co., % Larry Simmons	Realty, Durango, Colorado
		Co., & Larry Simmons	Realty, Durango, Colorado
DISTRICT	r <u>31</u>		
	King Ditch Company	James F. Mayfield	Rt. 1, Ignacio, Colorado
-	Los Pinos Ditch Company	Frank Ludwig, Jr.	Box 245, Bayfield, Colorado
	Robert Morrison Ditch Company	Delwin Fassett	Rt. 2, Durango, Colorado
	Schroder Irrigation Ditch Company	Lucian Squires	Bayfield, Colorado
•	Spring Creek Ditch Company	Glen Faverino	Rt. 2, Ignacio, Colorado
•	Sullivan Ditch Company	Raymond VanCamp	Rt. 1, Bayfield, Colorado
	Thompson-Epperson Ditch Company	E. G. Loring	Rt. 1, Bayfield, Colorado
	Vallecito Reservoir	Pine River Irr.	
		Dist., Frank Wommer	Rt. 1, Bayfield, Colorado
DISTRICT	n 33		
DISTRICT	Montezuma Valley Irrigation Company	Victor Bryan	Cortez, Colorado
DISTRICT	г 33		
<u>D1D1140</u>	Big Stick Ditch Company	Grant Paulek	Hesperus, Colorado
	Hay Gulch Ditch Company	Lawrence Huntington	Hesperus, Colorado
	H. H. Ditch Company	Orlo Schmitt	Hesperus, Colorado
•	Joseph Freed Ditch Company	Nancy Price	Hesperus, Colorado
	La Plata River & Cherry Creek		
	Ditch Company	Roland Bartel	Mancos, Colorado
**	Lightner Canal Company	V. A. Paulek	Hesperus, Colorado
	Pine Ridge Ditch Company	Colo. Div. Wildlife	Durango, Colorado
	Red Mesa-Ward Reservoir &		
	Ditch Supply Company	Nancy Price	Hesperus, Colorado
	Reorganized Revival Ditch Company	Lila Greer	Hesperus, Colorado
	Slade Ditch Company	Judy Albrecht	Hesperus, Colorado
	Townsite Ditch Company	Judy Albrecht	Hesperus, Colorado
	Treanor Enterprise Ditch Company	Ruth Candelaria	Marvel, Colorado
DISTRICT		Lover French	Managa Colorada
	Bauer Lakes Water Company	Leroy Everett	Mancos, Colorado
	Ratliff & Root Ditch Company	Lloyd Doerfer	Mancos, Colorado
. *	Town of Mancos Ditch Company	Geraldine Wallace	Mancos, Colorado
	Webber Ditch Company	Vernon Ellis	Mancos, Colorado

Webber Ditch Company Vernon Ellis Foster Hall Webber Reservoir & Ditch Company Mancos, Colorado

DISTRICT 71

Eddie McRea Dolores, Colorado Summit Irrigation System Groundhog Reservoir & Beaver Victor Bryan Cortez, Colorado Ditch System Montezuma Valley Irrigation System Victor Bryan Cortez, Colorado

DISTRICT 78

Raymond McWhiter Pagosa Springs, Colorado Piedra Falls Ditch Company

WATER COMMISSIONERS' SUMMARIES

Summaries for the 1975 Annual Report were received recently and should be available in Denver for inclusion with last year's report. This year key-punching and computer printing was done at the local level and summaries are included with this report.

X. DIVISION ENGINEER'S SUMMARIES

The Division Engineer's Summary for 1975 is now available in the Denver Office

for inclusion in last year's report. This year's summary is included with this report.

RECOMMENDATIONS AND SUGGESTIONS XI.

A. DIVERSION RECORDS AND DATA BANK

Indoctrination into the Data Bank process was completed with a minimum of problems due to capable and dedicated personnel, resulting in less end-of-the-year work, with a much higher degree of accuracy in data recording and reporting.

Local keypunching with summary printouts are of great value in completing the Water Commissioners' and Division Engineer's Annual summaries. This takes a burden off of the Denver Office where computer time is short. Even with local work in data bank computations, more time is needed between October 31 when the irrigation season ends, and the middle of December when the Division Engineer's Annual Report is scheduled. Banks, colleges, etc., in the local areas have other customers who compete for priority computer time. Therefore, it is suggested that the Division Engineer's meeting be held in February to allow more versatility in obtaining computer time for annual computations.

The field investigation of the water right applications along with court hearing participation by Division VII personnel has shown good preparation and attention to details, resulting in "zero deficits" with the Water Court.

Changes in the Law increased the number of requests for old and new data. This, coupled with an ever widening field of envolvement with a growing array of new agencies, has greatly increased the work load of everyone.

Without a team effort both in the Division and in Denver, the job would be insurmountable. I would like to take this opportunity to thank each and every one in Water Division VII for their cooperation and effort in completing a year well done. Also, thanks to those in Denver whose extra effort made our jobs easier.

Division Engineer Wayne M. Crosby, P

WMC:alf

WATER COMMISSIONERS' SUMMARY

			DIRE	DIRECT ACRE FEET	EET		•	J	STORAGE ACRE	FEET))	COMBINED	•	
•		NUMBER OF DITCHES	DITCHES	~			~		TOTAL	TOTAL	DIRECT	DIRECT TO IRRIGATION	NO	
· •		ON			NUMBER	DIRECT	TOTAL)	NO.	ဥ	FROM	STORAGE	TO IRRIGATION	ভ	
WATER (ACTIVE	WATER	NOT	TNFPFO	DAILY	TO 1001	DIRECT)	OF	STORAGE	STORAGE	STORAGE TO		11000	
	7,777	TT GAG	2000	X THE THE	STAND TON	TWITE.	L TON	· Constant	(H.F.)	(W.F.)	TKK TCAT TON	TKKIGATED	A.F./ACKE	- '
29	160	ന	143	54	3,983	78,633	129,393	52	2,795	2,795	213	21,272	3.71	
30	202	17	233	300	18,387	79,640	116,254	46	56,416	48,302	21,949	40,887	2.48	
31	145	0	61	147	11,656	163,377	175,131	10	72,310	82,038	81,185	55,518	4.41	
32	163	Ŋ	. 67	29	4,704	142,566	144,303	ω	16,058	15,932	13,372	49,373	3.21	
33	100	7	28	40	6,230	20,122	36,970	10	386	942	942	11,963	1.76	
34	131	, (3)	33	10	1,988	28,596	33,819	12	6,480	7,563	7,563	16,310	2.22	
46	30	0	m	Ħ	1,622	4,881	7,747	0	0	0	0	2,073	2.35	
. 69	. 26	т.	16	- 1	211	4,718	4,719	ហ	427	197	197	1,529	3.21	
71	89	ß	26	79	1,118	9,571	21,868	16	27,457	20,871	7,094	3,217	5.18	
77	82	4	44	22	1,492	18,506	60,618	18	0	405	405	3,716	5.09	
78	121	m	98	26	3,130	47,222	48,518	23	447	824	122	9,230	5.13	
		1												
TOTAL	1,228	47	800	400	54,521	597,832	779,340	200	183,375	179,869	133,042	215,088	2.78	
		Н												
				,										

DIVISION SUMMARY - DIVISION VII DIRECT FLOW DIVERSIONS

DAILY	IN TOTAL	SIONS COMPACT DIVER. RPTS.	$\frac{1}{129.393}$ 3.983	12.0352/116.254	0 175,131	$0 144,303^{1}/4,704$	$12,016\frac{4}{1}$ 36,970 6,230	0 33,819 1,988	$2,397\frac{2}{4}$ 7,747 1,622	0 4,719 211	$0 21,868^{\frac{1}{2}}$ 1,118	$39,368^{\frac{5}{2}}$ 60,618 1,492	0 48,518 3,130	
	•	DOMES. STOCK DIVERSIONS	782 4.393 278 From	967 575	5,050 2437	13 1,712 0	1,442 3,385 0	80 4,074 0	0	0	70 191 0	19 281 0	492 0	
RECREATION		A.F.	1	ď	73	- 1		1	468	:	1	1	1	1
MUNICIPAL	USE DIVER.	A.F.	3.903	5 903	557	!	-	1,069	\$ \$ 1	1	5,144	1	-	i
INDUSTRIAL		C. A.F.	854	<u>'</u>	· 	12	'n				6,254	9 2,444	804	
OF		TED A.F./AC.	72 3.71		· · ·	173 3.21	1.76	110 2.22	73 2.35	3.21	17 5.18	16 5.09	30 5.13	
NO. OF		IRRIGATED	21.272				11,963	16,310	2,073	1,529	3,217	3,716	9,230	
DIRECT	2	* A.F. IRRIGATION	78.633	79,640	163,377	142,566	20,122	28,596	4,881	4,718	21,868	18,506	47,222	_
CHES	ឆ្ល	INACTIVE*		7 233	0 61	5 67	7 58	2 33	0 3	1 16	5 56	4 44	3 86	
TOTAL DITCHES	POR	ACTIVE IN	214		292	192	140	141	31	27	147	104	147	
		DIST.	20	3 6	313	32	33	34	46	99	7.1	77	78	

110,676 A.F. M.V.I. Canals 1 & 2 diverted out of W.D. #71 for use in W.D. #32, 35,000 acres 9,232 A.F. Summit System . . " 5,000 acres

TRANSMOUNTAIN DIVERSIONS: DESIGNATE EITHER TO OR FROM DIVISION

Water diverted in Colorado for use in New Mexico

NA = NO WATER AVAILABLE NU = NON USE

W.D. #30 Ralston Ditch 100% (7,830 A.F.), 350 acres N.M.

" Twin Rock Ditch (73%, 4,205 A.F., 200 acres N.M.) (27%, 1,555 A.F., 70 acres Colo.) W.D. #46 Horner-Heath Ditch (65%-278 A.F., 325 acres N.M.) (35%-149 A.F., 175 acres Colo.)

Briggs Ditch (100%-3,033 A.F., 270 acres N.M.)

Delivered to New Mexico thru Blanco Tunnel Diversion, San Juan-Chama Project Delivered to New Mexico under LaPlata River Compact (irrigation season) श्री की है।

Delivered to New Mexico thru Navajo and Little Navajo (Oso & Little Oso Tunnel diversions) San Juan-Chama Project

TABLE C	O			Stor	Storage Report - A	Acre Feet					
WATER DISTRIC	Amo 11-1-75	Amount in Stoi Acre Feet 5-1-76 10	Storage eet 10-31-76	Actual Am't Diverted to Storage During Season	Dolivered from Storage to Irrigation	Storage to Industrial Use	Storage to Municipal Use	Storage to Recreation Use	Storage to Projects		1
29	2,755	2,751	2,669	2,795	213	1	1,241	1,341			
30	33,266	31,471	39,585	56,416	21,949	26,253	100		• •		
32	50,516	120,158	52,331 . 11,560	72,310	81,185	52	101 2,560	730			
33	389	1,303	414	985	942 7,563	1 1	- , .	1 1			•
46	NO .	STORAGE 605	522	427	197				.	•	• • • • • • • • • • • • • • • • • • •
7.7	12,223	28,904	8,504.	. 27,457	7,094			·	13,777		
78	14,276	14,320	13,899	447	122		702	l	 		
LOTALS	129,879	238,336	136,805	183,375	133,042	.26,275	4,704	2,071	13,777		