

# STATE OF COLORADO

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February 18, 1993

Hal J. Simpson, State Engineer  
Division of Water Resources  
1313 Sherman Street, Room 818  
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Dear Mr. Simpson:

On behalf of the office and field personnel of Water Division IV, I am pleased to submit this Annual Report for 1992.

The personnel of Division IV have conducted their duties in a most professional manner during the 1992 water year. I would like to recognize their diligent efforts which have resulted in this Annual Report, and this year's diversion records.

Sincerely,

Keith C. Kepler  
Division Engineer

KCK: jk

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## DIVISION IV ANNUAL REPORT

### I. THE 1992 WATER YEAR

The 1992 Water Year turned out well year despite a low spring snowpack. Runoff forecasts based upon snowpack predicted a much lower than average runoff for the Gunnison River as indicated in Table 1 (appendix A). Several areas benefitted from timely rains in May, July, and August. Growing season precipitation is shown in Table 2 (appendix A).

#### A. Uncompahgre Valley

The snowpack was only slightly below average in the Uncompahgre drainage. The average snowpack combined with above average precipitation made for a good water supply. The Uncompahgre River had insufficient water to meet the demands of the Uncompahgre Valley Water Users Association from August 17 - 23 and from August 29 - September 15. However, the shortages were small enough that the UVWUA chose to draw on storage in Ridgway reservoir rather than call out upstream juniors in Water District 68.

In Water District 68, Ouray County, the water year was good. Irrigation began in April with reasonably good runoff from the Uncompahgre Plateau and Log Hill Mesa. Ridgway Reservoir started filling May 11 with a storage of 58,097 acre feet and spilled July 27 at 83,469 acre feet. A new golf course was constructed on top of Log Hill Mesa and water is being supplied from five wells completed in the Dakota formation. Those wells are to be augmented by releases from Ridgway reservoir. Development is high in the Ridgway area with a new motel and several new subdivisions in the last year.

#### B. Upper Gunnison Basin

Snowpack in the upper Gunnison basin was low this year. Spring came early, with snow melting off the irrigated meadow lands approximately three weeks earlier than usual. Rains in the spring and summer kept water supplies adequate for the most part. Cool weather in June is blamed for hay crops being 20 to 25 percent less than normal.

Water District 28 includes Tomichi Creek and its tributaries, Cochetopa Creek, Razor Creek, Hot Springs Creek, Quartz Creek and others. In this area, ditches were turned on around April 20 and ran until July 20 for haying. Few were turned back on due to rain and slow haying. Water was released water from

Hot Springs reservoir without notice to the Water Commissioner and therefore this water was not specifically delivered to ditches although it was used by those who intercepted it.

Water District 59 includes the Taylor River, East River, Slate River, Ohio Creek and other streams. Stream flows were lower than normal and calls were discussed, but no calls were officially made as July and August storms improved water availability. Conflicts between ditch owners and property owners continue and are expected to grow as the population grows and rural lands are subdivided and more houses are built on existing tracts.

In Water District 62 shortages on the Big and Little Cimarron Rivers did not develop until late in the season. Although calls were exercised, they did not have much affect on production as the grass hay was already mature. This area is seeing a considerable change from family ranching to ranches held by out of state owners with some ranches being divided. As a result, there is considerable demand for ponds and spring development.

C. South Slope of Grand Mesa and North Fork of the Gunnison

Although early snowpack on Grand Mesa was good, a shortage in winter and spring snow resulted in a less than average snowpack, particularly on the East part of Grand Mesa. An early spring caused an early runoff, with some water being lost before water users were ready to irrigate.

In the Cedaredge area, hay prices were way down from the previous year. The apple harvest was good, although there was some hail damage. Price and demand for apples were both down from the prior year. A new golf course was constructed in Cedaredge and water supply is from water rights changed to this use through the water court. The City of Delta has completed engineering plans to install hydroelectric facilities on their Grand Mesa pipeline. The overall economy is growing with a number of people moving to the Cedaredge area.

Snowpack in the North Fork Valley varied. The Smith Fork and Crystal Creek areas are supplied with runoff from Black Mesa. Streamflows were near normal and ranchers and farmers generally had an adequate water supply. The North side of the North Fork Valley is supplied by runoff from Grand Mesa, and these areas only had about 70% of average snow water availability. Leroux Creek, Hubbard Creek, and the Overland Reservoir saw these shortages, with the draw upon Leroux Creek Reservoirs being the greatest since 1977. Hay and alfalfa prices were about \$30 per ton, lower than many people remember.

Overland Reservoir on Cow Creek, tributary to Muddy Creek and the North Fork was the location of two controversies this summer. First, Overland reservoir was the site of the Rainbow Family gathering. Approximately 20,000 people arrived without warning at the Overland reservoir to spend several weeks camping at that site. Strains and concerns of the local people and local government were many. Questions on the water supply for this gathering were resolved when a water user in the Overland leased water to the group. Water quality concerns were much greater than water supply concerns, with both local and state officials conducting water quality sampling. In the end, water quality impacts were not reported as being severe.

The second controversy at Overland Reservoir related to an agreement the reservoir company was forced to make with the U.S. Forest Service as a requirement of the easement to rehabilitate the reservoir. This requirement provided that the reservoir company would bypass 2 c.f.s. from storage additions or direct use. This problem would appear to be resolved by a recent Forest Service memorandum which disavowed the taking of such rights from water users, but the matter has yet to be finalized at the local level.

Kannah Creek in Water District 42 gets its supply of water from runoff from the west end of Grand Mesa. In this area runoff was near average, and Kannah Creek water users enjoyed a better runoff than in the past several years. Unfortunately, summer precipitation was not as good elsewhere in the division and only the very senior water rights had water in the late summer.

#### D. San Miguel River

The San Miguel River and its tributaries in Water District 60 had a very good water year in 1992. There were no calls on the river and seeps and springs held up well. The hay and small grain yield was good. Reported price for hay was about \$50 to \$60 per ton. Development pressures from growth of the Telluride area are great, and have a significant effect on land and housing values all the way to Norwood. Cleanup of the uranium tailings at Uravan is progressing well. The Nucla Power Plant is now being supplied with coal from a new mine south of the plant in the Lilylands area.

#### E. Paradox Creek and Dolores River Tributaries

Paradox Creek in Water District 61 had a much better water year than in years past. Buckeye Reservoir filled by the middle of May. Paradox Creek went under administration on June 25. The Bureau of Reclamation Salt Water Disposal Project at Bedrock is about to begin operations.

In Water District 63, lower Dolores River tributaries, the snowpack was about 75 percent of normal, but stream flows held up fairly well. West Creek was on call from July 27 to August 17.

Water District 73 includes Coates Creek and the Little Dolores. This area experienced an early spring which depleted snowpack prior to the irrigation season. About one-fourth of the fields were not irrigated due to the low water supply.

## II. 1992 PROGRAMS AND ACTIVITIES

The major trend for 1992 was the increased presence of environmental issues in the water resources arena. Major topics which are being addressed include endangered fish species in the Colorado River downstream of Grand Junction, streamflows for the Black Canyon of the Gunnison National Monument, and changes in operations of Blue Mesa Reservoir and other federal reservoirs to include fish releases.

Other areas which demanded extensive resources during the 1992 water year were the abandonment trials, irrigated acreage determination for the Colorado River Decision Support System, and our involvement in development of an accounting spreadsheet and basin model for the Gunnison River.

### A. Dam Safety Program

Four incidents during the summer of 92 placed a high demand on the dam safety program and made the importance of this program very apparent. The incidents are indicative of the age and initial construction of many of our dams. They clearly indicate a need for monitoring and observation as well as repairs and maintenance. In addition to responding the incidents, the Division IV dam safety engineer conducted 99 routine inspections and we were once again able to maintain the 1-1-5 year inspection interval for high, moderate and low hazard dams. An additional 30 dam inspections were performed by the water commissioners.

Eureka #1, a non-jurisdictional dam in WD 40 on Grand Mesa had a slide on the downstream slope due to leakage through the embankment. The water level was lowered and the leakage ceased. The owner plans to repair the dam.

Kiser Slough is a 33 foot high Class I dam in WD 40 on Grand Mesa. The outlet was found to be inoperable when the water commissioner first attempted to release water in late spring. The owners employed a diver and a dozer to connect a cable to the gate and pull it open. A crude repair was made without our approval and the repaired gate was difficult to operate.

We expect a new gate to be installed in 1993.

Beaver Reservoir is a 100 foot high Class I dam on Minnesota Creek above the town of Paonia in WD 40. A major seepage through the right abutment was observed and we had to order that the reservoir be lowered. This reservoir has had a history of such problems. Temporary repairs will allow partial storage in 1993. Investigation is proposed to find a more permanent repair.

Military Park is a Class III dam on Grand Mesa. A sinkhole was observed above the outlet pipe. Investigation found a deteriorated outlet. Temporary repairs were made to allow use of the reservoir during 1993, with a more permanent repair to be made late in the 1993 season.

A dam owner public awareness workshop was held in May in Grand Junction with funding from FEMA and ASDSO. The workshop presented information on regulations, Forest Service permitting, effect of aging on dam performance, and emergency preparedness planning. Approximately 95 persons attended.

#### B. Abandonment

The Division IV abandonment list originally contained 216 items. Following the time to protest to this office, the abandonment list was revised to contain 181 line items which were forwarded to the court. There were protests to 36 of the items on the list. There were no protests to 141 items which were determined to be abandoned in an interlocutory decree. Ninety percent of these matters have been concluded as of mid-January 1993.

#### C. Irrigated Acreage Determination

Sponsored by the Colorado River Decision Support System project, Division IV hired two temporary employees to investigate and verify irrigated acreage. Scheduled completion of maps for the entire Gunnison basin is January 31, 1993. This represents a major milestone on an extremely important project to us.

#### D. Water Rights Database and Diversion Records

Major progress was made in improving the water rights database for the quadrennial tabulation published July 1, 1992. In 1992, the Assistant Division Engineer performed a line by line review for WD 59. We expect to perform a line by line review of at least one district by an engineer each winter. In addition, we have implemented a quality control system which involves cross checking by the water commissioners and technicians.

#### E. Gunnison River Accounting Spreadsheet and Model

Considerable effort was put into Gunnison River spreadsheet and model activities. This effort included the Colorado Water Conservation Board, the Colorado River Water Conservation District, Uncompahgre Valley Water Users Association, Bureau of Reclamation, Upper Gunnison River Water Conservancy District, Tri-County Water Conservancy District, and the Division of Water Resources. There are two objectives: to produce an accounting spreadsheet which this office will use to keep a day by day account of the river, and to produce a model with a monthly time step which can be used to determine the effect of new developments or changed operations of existing features. In the process of developing the model, the above entities have spent considerable time discussing the administration of the major water rights and have developed a good working relationship and understanding. This is perhaps as important as the product since it provides a mechanism for dealing with both current and future issues and is bringing some issues to resolution before they actually become a problem.

Scheduled completion for both the accounting spreadsheet and the model is August 1993.

#### F. Involvement With the Water User Community

Division IV maintained an involvement with the water user community during the 1992 irrigation year. As has been the trend for the past several years, we have been dealing more and more with people other than the traditional irrigation water user. In order to make these people aware of our duties we met with realtors in Montrose and Gunnison counties. In the prior year we met with the realtors in San Miguel and Delta counties.

Our efforts with the irrigation community continue as in past years. We try to periodically attend meetings of the Colorado River Water Conservation District, the Southwest Water Conservation District, the Upper Gunnison River Water Conservation District, and the Uncompahgre Valley Water Users Association. Water Commissioners often attend meetings of the individual irrigation companies.

#### G. Water Court Activities

Water Court activities picked up late in the water year. Diligence became due for several conditional rights following a two year recess due to changes in the diligence statute. A total of 216 cases involving 292 structures were filed in calendar year 1992.



The Taylor Park second fill decree, 86 CW 203, was upheld by the Supreme Court in case no. 90 SA 498. This decree essentially upheld the operations of Taylor Park Reservoir and Blue Mesa Reservoir as set forth in a 1975 agreement between the Upper Gunnison River Water Conservancy District, the Uncompahgre Valley Water Users Association, and the U.S. Bureau of Reclamation. Under that agreement, water was bypassed through Uncompahgre's Taylor Park Reservoir and then stored in the lower Blue Mesa Reservoir. The court found that it was appropriate to charge the water so bypassed to Uncompahgre's senior decree and that the later filling of the reservoir constituted a second filling.

In case no. 92 CW 107, the Colorado Water Conservation Board filed to change certain conditional rights previously held by the P & M Coal Company to an instream flow right for the Black Canyon National Monument. That matter is pending before the court.

Environmental issues appear to have more and more importance and impact on the development of water rights in Division IV.

#### H. Hydrographic and Satellite Monitoring Activities

Division IV continued its hydrographic and satellite monitoring activities during the 1992 water year. This year we added the Big Ditch at Cedaredge to our reporting stations. The Big Ditch station uses the same data collection platform (DCP) as the Surface Creek at Cedaredge station. Also, this year, we completed the installation of the new DCP's on all the stations in Division IV. Chuck David and Jerry Thrush have been training Steve Tuck in hydrographic work, and Steve has displayed considerable dedication and enthusiasm.

We continue to develop the stage discharge curve for our new river station, the Uncompahgre River at Olathe. The hydrographers were both able to take USGS training in Denver.

Division IV continued the successful Satellite Maintenance program through the 1992 water year and was able to maintain a good turnaround time on repairs. Additionally, Chuck David paved the way for the installation of the new DCP's throughout the state.

#### I. Information Systems

Division IV did not meet our objective for information systems in the 1992 water year. The objective of Division IV was to have a computer for each engineer and technician in the Montrose office plus a word processing computer. Those hardware items need to be tied together by a network in order

to have good data for each user. During the 1992 water year we were able to obtain two new computers, one purchased by the Denver office and another purchased by Division IV operating funds. Unfortunately, we had to retire two computers, one due to obsolescence, and another wore out. Additionally, we still have an old 'XT' machine which is becoming obsolete under the demands of todays software. Computers are the tool we have used to maintain and increase productivity while taking reductions in staffing and operating budgets. This is a key area that needs continued support.

In the field offices, we have suitable machines in both Cedaredge and Grand Junction, although the amount of data on the Grand Junction machine may demand more disc space soon.

#### J. Staffing

Division IV was fortunate in maintaining an excellent staff through the 1992 water year. Two new people were Cliff Davis who did an excellent job on the North Fork of the Gunnison River and Rod Hamilton who worked at Leon Lake on Grand Mesa. Both were employed as temporaries. Chuck David left Division IV at the end of January 1993 to transfer to the Division of Wildlife in Montrose.

### III. THE COMING WATER YEAR

Of greatest concern for the coming water year is the States budget problem. In order to maintain the level of service we are currently providing, we must maintain current staffing levels and must have reasonable tools to do our jobs. We have been behind for several years in the tools department, falling way behind the private and federal sector in computers and other hardware needed to do the job. Unfortunately, given the states budget problems, it is doubtful we will maintain even historic funding levels.

During the next year, we expect to see further developments in two areas: environmental demands for water, and mainstem Gunnison River accounting. Current environmental demands which will go into the next few years for resolution include: quantification of reserved right instream flows for the Black Canyon of the Gunnison, operations analysis for Blue Mesa reservoir which includes the environmental impact statement and the contract with the National Park Service for a supply of water to the Black Canyon, flows for endangered fish in the Colorado River below Grand Junction and operations of Blue Mesa Reservoir to meet demands for the fish pursuant to the endangered fish recovery program, the in-stream flow application in the Black Canyon which proposes to change the

use of the old conditional rights originally filed on by the Pittsburgh and Midway Coal company. Further environmental issues can be expected as operations of other Federal reservoirs are reviewed and as environmental concerns arise in other areas.

Mainstem Gunnison River accounting, modeling and administration issues will continue to be developed and we expect a greater involvement in this area not only by this office, but also by the several other parties participating.

Water development for traditional uses is expected to remain centered on the recreational developments at Telluride and Crested Butte. This has a significant spill-over to surrounding communities and will put greater demands on existing municipal water systems and create demands for new water supplies to supply subdivisions which cannot obtain water from an existing system. We do not expect any significant development of water for agricultural use.

#### A. Goals for the 1993 Water Year

DWR Key areas and objectives have been set forth for FY 92-93. There is no point in repeating them here. Specific goals for Division IV for the upcoming water year include:

- o Perform our basic functions to the best of our ability within budget limitations. Minimize adverse impact of budgetary restraints on personnel.
- o Continue the training program for Division IV personnel.
- o Develop better communications with field personnel.
- o Maintain good communications with legislators, water users, and other agencies.
- o Resolve remaining administration issues for the Gunnison River Mainstem, work with sponsors to complete the Accounting Spreadsheet and Model for the Gunnison River.
- o Further develop the quality of our diversion records, water rights information, and streamflow data; and improve the accessibility and usability of this data to the staff and to the public.
- o Complete work in the definition of irrigated acreage for the entire Division IV and include identification of water source.

Table 1. Runoff Forecast, Percent of Average

STATION	MARCH 1 FORECAST	APRIL 1 FORECAST	MAY 1 FORECAST
Gunnison R. nr. Gunnison	73	83	73
North Fork Gunnison nr. Somerset	74	79	74
Surface Creek at Cedaredge	78	87	80
Uncompahgre R. at Ridgway	92	106	89
San Miguel R. nr. Placerville	115	105	90

data from NOAA Water Supply Outlook for Upper Colorado

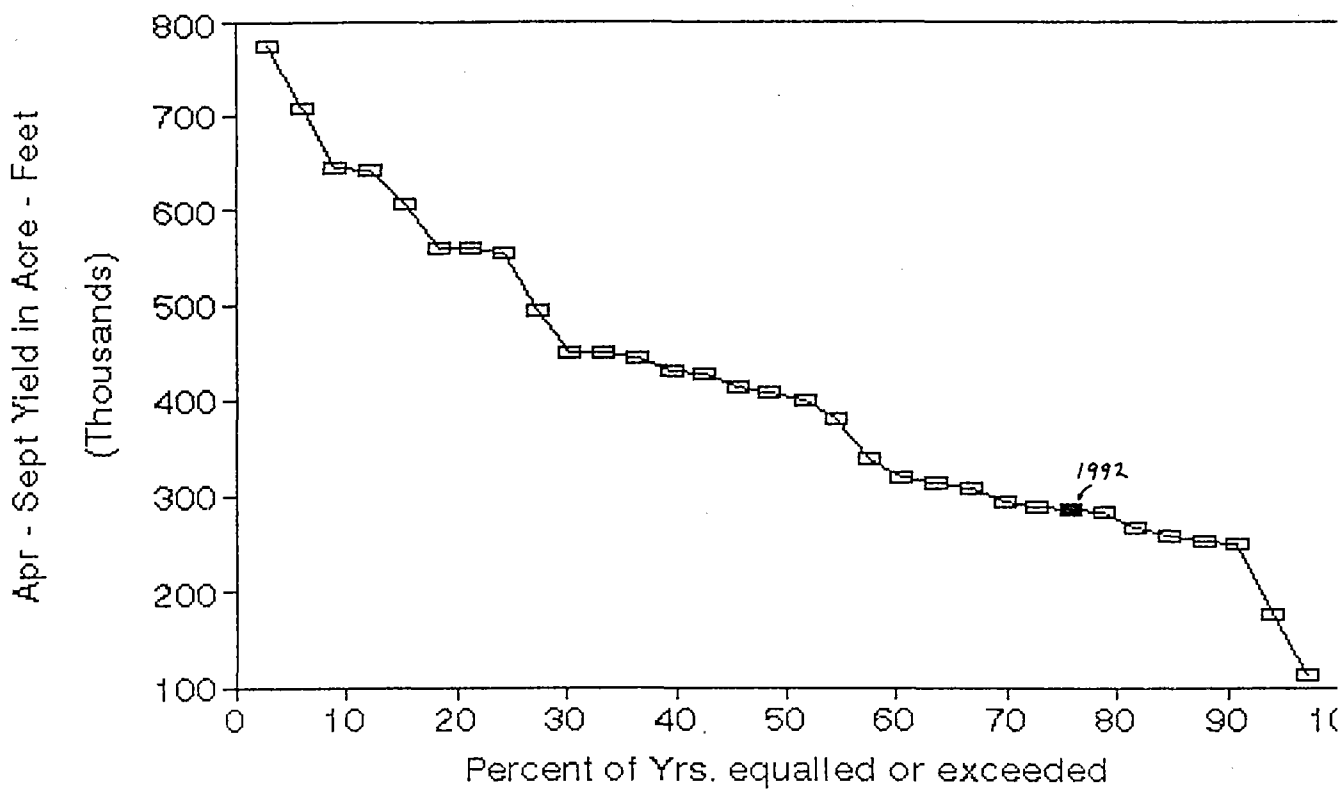
Table 2, Growing Season Precipitation, percent of average

STATION	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	OCT.
CEDAREEDGE	89	193	25	94	110		
GUNNISON 1 N	56	100	58	90			
MONTROSE 2	35	276	85	220	150		
NORWOOD	34	188	94	223	112		

data from NOAA Climatological Data. September and October data not published at time of report

# Gunnison River near Gunnison

## Flow Duration Curve (1961 - 1992)



GUNNISON RIVER NEAR GUNNISON

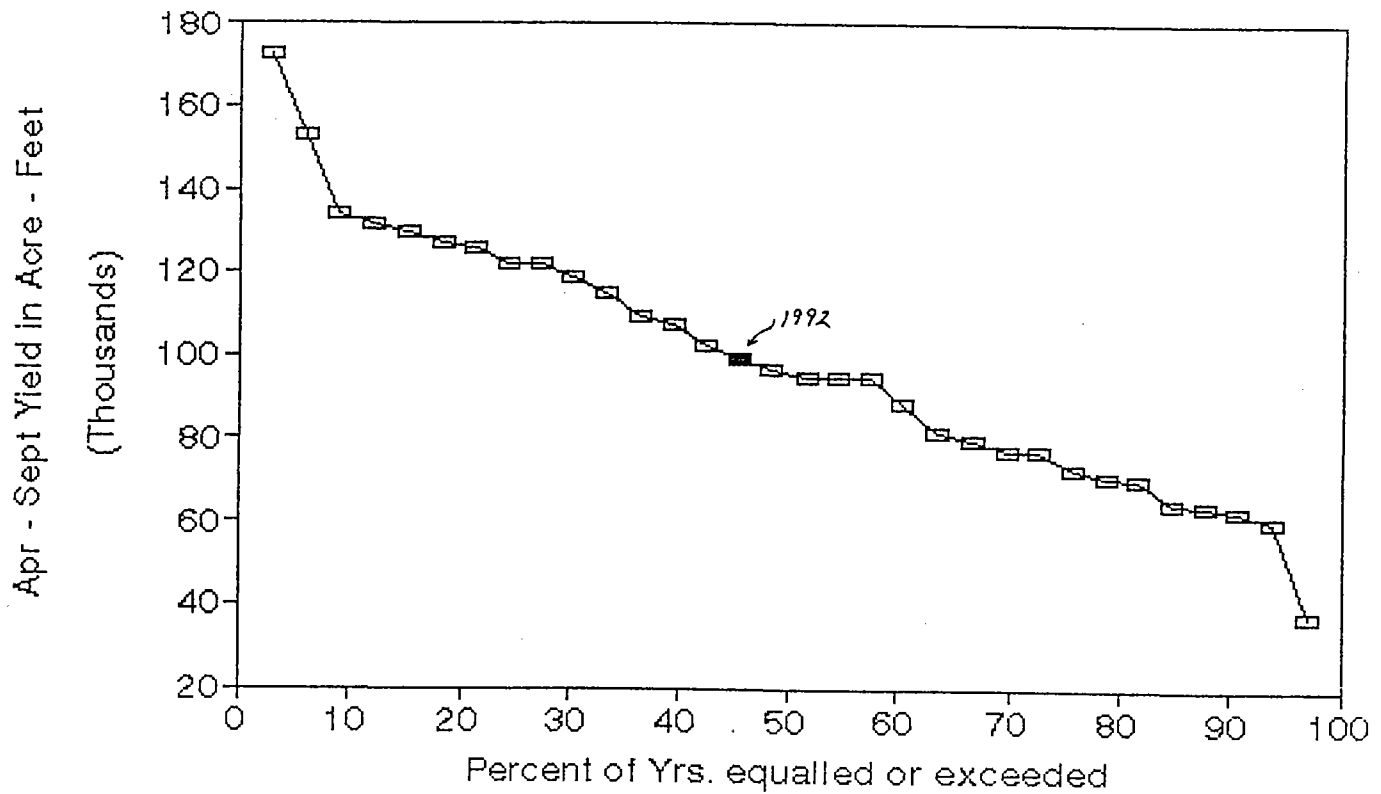
YEAR	ACRE - FEET							APR-SEP TOTAL	PERCENT OF YEARS EQUALLED RANK OR EXCEED	
	APR	MAY	JUN	JUL	AUG	SEP	RANK		OR EXCEED	
1984	41530	208000	249900	154400	75270	44050	773150	1	3	
1965	64630	137800	202500	184100	70900	50180	710110	2	6	
1986	63000	138600	197500	125500	68570	52970	646140	3	9	
1962	82180	171400	183900	103500	55010	45000	640990	4	12	
1985	71120	176500	172400	88500	45110	54030	607660	5	15	
1979	39130	156800	177100	112400	41860	31790	559080	6	18	
1980	59070	140400	192000	80040	42150	44460	558120	7	21	
1970	58370	180400	151700	78490	36160	48400	553520	8	24	
1983	30150	70220	181700	106100	66890	37970	493030	9	27	
1978	32970	83630	183900	83750	38830	25480	448560	10	30	
1971	56740	87710	137500	84510	56150	25260	447870	11	33	
1987	67680	128300	116700	55300	42480	32840	443300	12	36	
1969	50830	132900	97090	79440	42450	28810	431520	13	39	
1982	36870	91480	141200	71810	45350	39950	426660	14	42	
1968	19380	86110	151200	50810	68320	37570	413390	15	45	
1975	20010	59640	144500	114900	45420	23230	407700	16	48	
1973	15800	87110	127800	100600	42960	24610	398880	17	52	
1991	28860	99360	120800	64740	41940	23610	379310	18	55	
1972	31660	59800	120400	36990	43600	45340	337790	19	58	
1967	26800	69350	105100	55100	35810	28110	320270	20	61	
1974	25340	109400	85730	39950	34360	18710	313490	21	64	
1976	31400	67480	82430	53190	40880	33040	308420	22	67	
1988	31150	72450	91280	45230	31320	21900	293330	23	70	
1964	12710	72090	78100	44670	43420	36940	287930	24	73	
→ 1992	34860	75150	66890	45280	37230	25220	284630	25	76 ←	
1966	35860	77800	80630	33200	34170	21640	283300	26	79	
1963	31890	61420	54850	48910	47960	21810	266840	27	82	
1989	47530	64000	64650	32260	31770	17150	257360	28	85	
1961	15360	61970	59650	47320	45030	23870	253200	29	88	
1990	15870	29230	83910	41090	62050	18940	251090	30	91	
1981	14880	26350	56080	30330	25470	22850	175960	31	94	
1977	16660	17370	25290	17710	19520	14810	111360	32	97	

TOTAL 13083960

AVERAGE 408874

# Uncomphagre River near Ridgway

## Flow Duration Curve (1961-1992)



UNCOMPAHGRE RIVER NR RIDGWAY, CO

YEAR	ACRE - FEET							PERCENT OF YEARS EQUALLED	
	APR	MAY	JUN	JUL	AUG	SEP	APR-SEP TOTAL	RANK	OR EXCEEDED
1984	9610	47060	54390	34080	18150	9390	172680	1	3
1983	5180	17770	54250	52160	16790	6740	152890	2	6
1985	11200	25780	52950	25950	10410	7700	133990	3	9
1965	8810	19620	39250	38840	14470	10040	131030	4	12
1975	4040	15850	44640	45900	13040	5790	129260	5	15
1986	6640	21580	45800	29120	11310	12260	126710	6	18
1979	6540	23500	49080	31490	11160	4100	125870	7	21
1973	4020	20860	46350	33000	11790	6140	122160	8	24
1982	5730	17190	38620	29010	18540	12780	121870	9	27
1978	7170	16950	53380	28550	8430	4590	119070	10	30
1970	4750	27640	36180	19290	12100	14890	114850	11	33
1987	10760	25990	38390	18480	9430	6560	109610	12	36
1968	4380	16350	48170	17750	15870	4880	107400	13	39
1962	10450	19560	35480	23340	8450	5190	102470	14	42
→ 1992	8660	23730	31290	20980	9400	5150	99210	15	45 ←
1964	6130	24610	30620	16870	12370	5650	96250	16	48
1969	9240	23960	24980	21280	8380	7010	94850	17	52
1991	5560	22600	35480	16700	8610	5600	94550	18	55
1971	9050	13240	35890	20220	8530	7570	94500	19	58
1961	6150	23040	32190	10170	8760	7980	88290	20	61
1980	5120	13120	36430	16130	6900	3930	81630	21	64
1974	5910	23810	26580	14130	5890	3400	79720	22	67
1966	7260	24780	23110	11870	6270	3900	77190	23	70
1988	5890	13900	30310	11660	7430	7680	76870	24	73
1967	4320	17210	22020	15050	9680	4580	72860	25	76
1976	4590	16050	26690	13010	6720	3940	71000	26	79
1990	5070	14720	28540	12290	4820	4520	69960	27	82
1963	6410	19350	16920	10160	6480	5430	64750	28	85
1981	4650	8680	22930	16550	6130	4780	63720	29	88
1972	5400	14210	24020	8840	4520	5260	62250	30	91
1989	8310	13960	17640	9760	6870	3530	60070	31	94
1977	5110	7510	9990	5440	4500	4500	37050	32	97

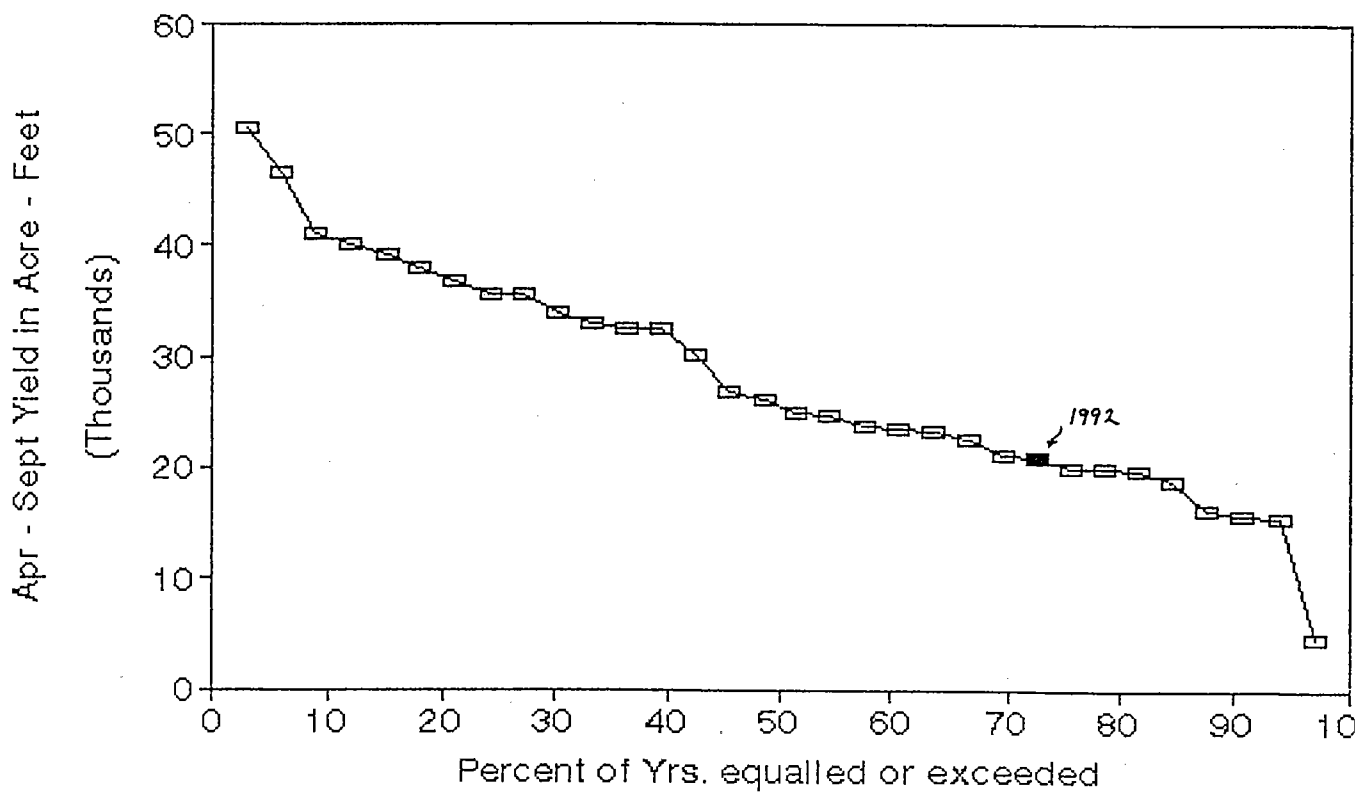
TOTAL 3154580

AVERAGE 98581



# Surface Creek near Cedaredge

## Flow Duration Curve (1961 - 1992)



SURFACE CREEK NEAR CEDAREEDGE

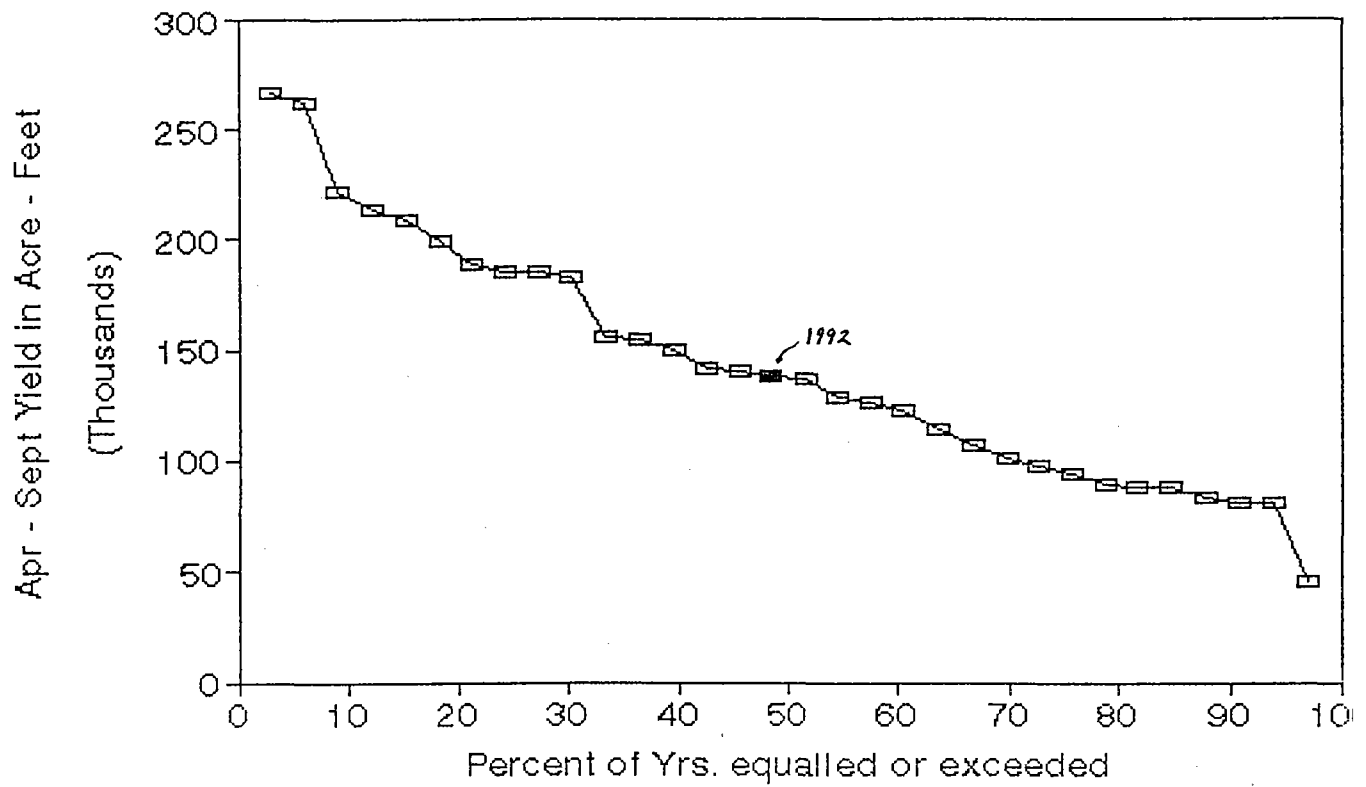
YEAR	ACRE - FEET						APR-SEP TOTAL RANK	PERCENT OF YEARS EQUALLED OR EXCEEDED	
	APR	MAY	JUN	JUL	AUG	SEP			
1983	1410	7180	20400	11720	5740	3900	50350	1	3
1986	3650	13010	15630	6570	4650	2970	46480	2	6
1984	1140	14500	12430	5810	4730	2450	41060	3	9
1973	849	11490	14530	6390	4240	2520	40019	4	12
1985	3240	11870	11130	5350	4890	2530	39010	5	15
1980	1400	8480	15260	6140	4300	2470	38050	6	18
1982	2530	8340	11110	6880	4330	3500	36690	7	21
1987	4540	11170	9230	4990	3480	2260	35670	8	24
1969	4080	12330	8280	4520	4720	1620	35550	9	27
1979	1470	8640	11600	5390	4210	2530	33840	10	30
1962	3850	7700	10330	5220	3870	1970	32940	11	33
1975	616	5820	11120	6920	5140	2930	32546	12	36
1978	1170	8050	12250	5020	3530	2450	32470	13	39
1965	1110	7470	9440	5650	4090	2490	30250	14	42
1970	709	8190	7750	4190	4010	2140	26989	15	45
1971	2780	5560	8100	4330	3350	1970	26090	16	48
1966	3020	8250	4930	4150	3020	1540	24910	17	52
1968	608	6510	7960	4130	2600	2880	24688	18	55
1991	715	6620	6250	4030	4140	1870	23625	19	58
1967	1200	6340	5930	3890	3550	2570	23480	20	61
1988	2200	6390	6240	4110	3460	982	23382	21	64
1974	2040	8480	4870	3190	2500	1540	22620	22	67
1972	2700	6470	4790	3240	2720	1250	21170	23	70
→ 1992	3350	6450	3750	3120	3060	1240	20970	24	73 ←
1989	3490	5240	4470	3550	2040	1170	19960	25	76
1976	823	6000	5560	3500	2380	1590	19853	26	79
1964	543	5790	4460	4000	2990	2030	19813	27	82
1961	790	5170	5000	3400	2820	1490	18670	28	85
1981	2010	4520	3530	2710	1910	1460	16140	29	88
1990	2500	3190	4090	2418	2307	1170	15675	30	91
1963	1730	5130	2530	2560	2050	1470	15470	31	94
1977	1060	1750	525	366	539	238	4478	32	97

TOTAL 892908

AVERAGE 27903

# San Miguel River near Placerville

## Flow Duration Curve (1961-1992)



SAN MIGUEL RIVER NEAR PLACERVILLE  
ACRE - FEET

YEAR	APR	MAY	JUN	JUL	AUG	SEP	APR-SEP		PERCENT OF YEARS EQUALLED OR EXCEEDED
							TOTAL	RANK	
1983	10100	52650	90930	73580	29730	9130	266120	1	3
1984	23520	91740	70740	44280	20750	11180	262210	2	6
1985	31660	48530	75540	37830	14870	12970	221400	3	9
1987	33110	58120	63150	33700	17350	7990	213420	4	12
1973	8900	49360	75380	50300	17210	7630	208780	5	15
1965	19980	35400	50220	56350	23400	13690	199040	6	18
1975	570	38060	60780	64610	16320	7550	187890	7	21
1986	15810	37990	64110	40620	14400	12650	185580	8	24
1979	13720	38100	72110	41140	14190	5760	185020	9	27
1982	15600	32690	51230	38420	25280	18850	182070	10	30
1970	8860	47030	40920	23480	14910	20330	155530	11	33
1980	10580	32080	62910	29620	12560	7130	154880	12	36
1978	15860	28880	64460	27770	7550	4620	149140	13	39
1962	21940	32070	41560	28260	10350	6750	140930	14	42
1961	14800	41620	46560	13870	11320	11730	139900	15	45
→ 1992	17130	36010	41120	25020	11620	6740	137640	16	48 ←
1968	6180	25190	55740	22060	20560	6650	136380	17	52
1971	15890	24130	46100	23100	11510	8080	128810	18	55
1969	14390	32580	29320	27060	12260	9830	125440	19	58
1991	14160	28520	41670	18940	9840	9370	122500	20	61
1964	10490	36410	34940	14550	11660	6280	114330	21	64
1988	9730	18980	40380	17190	10630	10310	107220	22	67
1966	12550	33510	28660	13380	7550	5090	100740	23	70
1974	13230	32880	29250	12870	5930	3900	98060	24	73
1976	8870	21670	36100	14310	7030	5510	93490	25	76
1967	5990	23100	24220	15820	12250	7810	89190	26	79
1981	8160	12290	31020	19620	8260	8860	88210	27	82
1989	14560	22580	22390	13940	9780	4350	87600	28	85
1963	10860	25580	19200	9900	10360	8150	84050	29	88
1990	5930	17020	33630	12230	6260	6030	81100	30	91
1972	9970	19040	30080	9740	5130	6280	80240	31	94
1977	6210	8380	13350	6370	5560	5260	45130	32	97

TOTAL 4572040

AVERAGE 142876

APPENDIX B

TRANSMOUNTAIN DIVERSION RECORD

<u>FROM</u>	<u>TO</u>	<u>STRUCTURE</u>	<u>AMOUNT</u>
WD-28	Div. 2	Larkspur	205 AF
WD-28	Div. 3	Tarbell	344
Div. 5	WD-40	Leon Lake	1551
WD-40	Div. 5	Divide Ck Highline Feeder	1390
WD-42	Div. 5	City Pipeline	1873
WD-42	Div. 5	New City Pipeline	5353
WD-42	Div. 5	Redlands Canal	521,958
WD-62	Div. 3	Tabor	684
Div. 7	WD-68	Carbon Lake Ditch	373
Div. 7	WD-68	Mineral Point Ditch	114
Div. 7	WD-68	Red Mountain Ditch	33
WD-73	Div. 5	Fruita Pipeline	99

RESERVOIR STORAGE SUMMARIES BY DISTRICT

WD	ID	RESERVOIR NAME	SOURCE STREAM	AMOUNT IN STORAGE (AF)				
				MINIMUM AF	MINIMUM DATE	MAXIMUM AF	MAXIMUM DATE	END OF YEAR
28	3590	HOT SPRINGS RES	HOT SPRINGS CK	108	7/14/92	603	4/22/92	108
28	3591	MCDONOUGH NO1	LOS PINOS CK	654	7/20/92	805	8/19/92	805
28	3592	MCDONOUGH NO2	LOS PINOS CK	260	7/28/92	800	5/5/92	377
28	3593	NEEDLE CK RES	NEEDLE CREEK			521	7/14/92	465
28	3594	UPPER DOME RES	COCHETOPA CK	210	8/19/92	547	5/5/92	243
28	3595	VOUGA RES	RAZOR CK			910	5/12/92	780
28		TOTAL FOR WD28		1232		4186		2778

40	3300	ALEXANDER LAKE	WARD CREEK	68	11/1/91	157	5/30/92	85
40	3302	BARREN LAKE RES	KISER CREEK	42	8/31/92	446	6/30/92	110
40	3304	BULLFINCH RES NO1	KISER CREEK	0	11/1/91	72	5/31/92	0
40	3306	CARBONATE CP NO6	YOUNGS CREEK	0	11/1/91	130	5/31/92	0
40	3307	CARBONATE CP NO7	YOUNGS CREEK	0	11/1/91	108	5/31/92	0
40	3308	DANIELS SLOUGH	KISER CREEK	0	11/1/91	228	5/31/92	18
40	3309	DEEP SLOUGH RES	WARD CREEK	0	11/1/91	498	5/31/92	60
40	3310	DEEP WARK LAKE	WARD CREEK	351	11/1/91	1102	6/30/92	351
40	3311	DONNELLY SLOUGH	KISER CREEK	85	11/1/91	277	5/31/92	70
40	3312	EGGLESTON LAKE	KISER CREEK	522	11/1/91	2093	6/30/92	304
40	3314	GOODENOUGH RES	YOUNGS CREEK	38	11/1/91	152	5/31/92	50
40	3315	HOTEL LAKES RES	WARD CREEK	327	11/1/91	549	5/31/92	53
40	3317	ISLAND LAKE RES	WARD CREEK	483	11/1/91	1304	6/30/92	703
40	3318	KENNICOTT SLOUGH	KISER CREEK	0	11/1/91	336	6/30/92	0
40	3319	KISER SLOUGH RES	KISER CREEK	113	11/1/91	512	5/31/92	0
40	3321	LITTLE GEM RES	WARD CREEK	32	11/1/91	219	6/30/92	8

40	3322	LITTLE GROUSE	YOUNGS CREEK	0	11/1/91	52	5/31/92	0
40	3323	MCKOON RES	YOUNGS CREEK	114	11/1/91	148	6/30/92	99
40	3325	PEDRO RES	YOUNGS CREEK	65	11/1/91	195	6/30/92	0
40	3327	PREBBLE RES	YOUNGS CREEK	58	11/1/91	193	5/31/92	65
40	3333	SHEEP LAKE RES	WARD CREEK	116	11/1/91	154	5/31/92	34

40	3334	UPPER HOTEL LAKE	WARD CREEK	44	11/1/91	106	6/30/92	76
40	3335	WARD CREEK RES	WARD CREEK	44	11/1/91	284	5/31/92	54
40	3336	WOMACK RES NO1	WARD CREEK	0	11/1/91	202	5/31/92	0
40	3337	WOMACK RES NO2	KISER CREEK	0	11/1/91	102	5/31/92	0
40	3338	YOUNGS CK NO1	YOUNGS CREEK	265	11/1/91	506	6/30/92	118
40	3339	YOUNGS CK NO3	YOUNGS CREEK	1	11/1/91	203	6/30/92	15
40	3341	BONITA RES	SURFACE CREEK	45	11/1/91	268	8/1/92	68
40	3343	CEDAR MESA RES	SURFACE CREEK	0	11/1/91	919	6/30/92	119
40	3345	COLE RES NO5	SURFACE CREEK	0	11/1/91	116	5/31/92	0
40	3348	ELK PARK RES	SURFACE CREEK	0	11/1/91	97	5/31/92	47
40	3349	EUREKA RES NO2	YOUNGS CREEK	0	11/1/91	54	6/30/92	0
40	3350	FISH LAKE RES	SURFACE CREEK	0	11/1/91	77	6/30/92	0
40	3351	GREENWOOD RES	SURFACE CREEK	0	11/1/91	51	6/30/92	0
40	3352	KEHMEIER RES	SURFACE CREEK	0	11/1/91	320	6/30/92	50
40	3353	KNOX RES	SURFACE CREEK	15	11/1/91	213	5/31/92	45
40	3354	MILITARY PARK	SURFACE CREEK	4	11/1/91	237	6/30/92	0
40	3355	PARK RES	SURFACE CREEK	1088	11/1/91	3383	6/1/92	768
40	3357	SACKETT RES	SURFACE CREEK	29	11/1/91	108	5/1/92	69
40	3358	STELL RES	SURFACE CREEK	0	11/1/91	60	6/17/92	25
40	3359	TRIO RES	SURFACE CREEK	36	11/1/91	164	6/1/92	62
40	3362	VELA RES	SURFACE CREEK	17	11/1/91	437	5/4/92	62
40	3363	WEIR & JOHNSON	SURFACE CREEK	84	11/1/91	446	6/16/92	141

40	3365	FRUIT GROWERS	SURFACE CREEK	612	11/1/91	4452	3/8/92	88
40	3368	BEAVER DAM RES	ESCALANTE CK	194	11/1/91	396	4/20/92	0
40	3373	DUGGER RES	OAK CREEK	121	11/1/91	212	6/2/92	205
40	3375	PITCARIN RES	DOUGHSPOON CK	64	11/1/91	76	6/2/92	43
40	3376	PORTER NO1 RES	OAK CREEK	215	11/1/91	215	4/30/92	170
40	3385	LEON PARK RES	SURFACE CREEK	0	11/1/91	114	6/12/92	0
40	3388	MARCOTT PARK RES	SURFACE CREEK	0	11/1/91	448	5/18/92	0
40	3390	Y AND S RES	SURFACE CREEK	23	11/1/91	175	6/1/92	29
40	3391	BALD MOUNTAIN	CRYSTAL CREEK	0	11/1/91	88	6/26/92	0
40	3395	FRUITLAND RES	CRYSTAL CREEK	0	11/1/91	9004	5/29/92	0
40	3399	OVERLAND RES NO1	MUDDY CREEK	0	11/1/91	4489	6/28/92	0
40	3400	POISON SPRINGS	GUNNISON RIVER	50	11/1/91	123	5/1/92	40
40	3401	ROCKWELL NO1	IRON CREEK	0	11/1/91	51	5/26/92	10
40	3403	TYLER RES	IRON CREEK	20	11/1/91	169	5/28/92	40
40	3406	BEAVER RES	MINNESOTA CK	0	11/1/91	1351	6/1/92	0
40	3407	LONE CABIN RES	MINNESOTA CK	133	11/1/91	163	6/2/92	0
40	3408	MONUMENT RES	MINNESOTA CK	287	11/1/91	442	6/23/92	0
40	3409	REYNOLDS RES	REYNOLDS CREEK			100	4/20/92	90
40	3411	WEST RES	JAY CREEK	104	11/1/91	604	5/2/92	86
40	3413	BRUCE PARK RES	HUBBARD CREEK	0	11/1/91	556	5/22/92	0
40	3414	EAST BECKWITH NO1	ANTHRACITE CK	333	11/1/91	568	6/20/92	448
40	3416	PAONIA RES	MUDDY CREEK	1074	11/1/91	16560	5/16/92	1714
40	3418	TOMAHAWK RES	MUDDY CREEK	55	11/1/91	87	5/13/92	40
40	3419	WILLIAMS CR LAKE	MUDDY CREEK	56	11/1/91	100	5/13/92	7
40	3420	BAILEY RES	LEROUX CREEK	0	11/1/91	434	5/31/92	0
40	3423	CARLSMITH RES	LEROUX CREEK	542	11/1/91	780	5/31/92	0
40	3424	DOG FISH LAKE	LEROUX CREEK	0	11/1/91	197	5/8/92	0
40	3425	DOWDY RES	LEROUX CREEK	0	11/1/91	264	5/30/92	0
40	3426	ELLA RES	LEROUX CREEK	0	11/1/91	87	5/31/92	0
40	3427	ELK WALLEWS RES	LEROUX CREEK	0	11/1/91	218	5/31/92	0



40	3430	FAIRMOUNT RES	LEROUX CREEK	0	11/1/91	78	5/31/92	0
40	3432	GOODENOUGH NO2	LEROUX CREEK	230	11/1/91	405	6/30/92	2
40	3433	GRAY RES	LEROUX CREEK	0	11/1/91	424	5/31/92	0
40	3435	HANSON RES NO2	LEROUX CREEK	0	11/1/91	225	6/30/92	0
40	3436	HOLY TERROR RES	TERROR CREEK	0	11/1/91	146	6/30/92	0
40	3437	HUNT RES	LEROUX CREEK	10	11/1/91	124	4/30/92	1
40	3438	LUCKY FIND RES	LEROUX CREEK	0	11/1/91	66	5/31/92	0
40	3440	OWENS RES	LEROUX CREEK	0	11/1/91	92	5/30/92	0
40	3441	PATTERSON NO1	LEROUX CREEK	0	11/1/91	78	4/17/92	0
40	3442	PATTERSON NO2	LEROUX CREEK	151	11/1/91	50	9/30/92	0
40	3444	REYNOLDS RES	LEROUX CREEK	0	11/1/91	176	5/30/92	57
40	3446	SKIM MILK RES	LEROUX CREEK	0	11/1/91	90	5/31/92	0
40	3449	WILLOW RES	LEROUX CREEK	48	11/1/91	128	5/31/92	90
40	3450	BASIN NO1 RES	DIRTY GEORGE CK	0	11/1/91	195	5/27/92	5
40	3452	BATTLEMENT NO1	DIRTY GEORGE CK	53	11/1/91	87	4/27/92	87
40	3453	BATTLEMENT NO2	DIRTY GEORGE CK	0	11/1/91	257	5/4/92	46
40	3454	GRANBY RES NO5	DIRTY GEORGE CK	0	11/1/91	653	6/30/92	223
40	3456	GRANBY RES NO7	DIRTY GEORGE CK	37	11/1/91	76	5/29/92	34
40	3459	GRANBY RES NO12	DIRTY GEORGE CK	168	11/1/91	485	6/30/92	171
40	3553	CRAWFORD RES	IRON CREEK	4771	11/1/91	14136	4/20/92	5773
40	4520	LEON LAKE RES	SURFACE CREEK	328	11/1/91	1356	6/30/92	308
40		TOTAL RES < 50 AF		342		1555		325
40		TOTAL FOR WD 40		14107		80683		13861
42	3600	ANDERSON NO1	KANNAH CREEK	293	11/30/91	468	5/31/92	0
42	3601	ANDERSON NO2	KANNAH CREEK	55	11/30/91	595	5/31/92	546

42   3602   BOLEN A+J RES NO2   KANNAH CREEK       235   5/31/92   0
+-----+
42   3603   BOLEN RES   KANNAH CREEK   108   11/30/91   536   5/31/92   0
+-----+
42   3604   CARSON LAKE   KANNAH CREEK   657   11/30/91   657   5/31/92   637
+-----+
42   3606   DEEP CR RES NO2   KANNAH CREEK       319   6/30/92   0
+-----+
42   3607   DRY CK RES + SUP   KANNAH CREEK       249   5/31/92   0
+-----+
42   3608   FLOWING PARK RES   KANNAH CREEK   200   11/30/91   736   5/31/92   0
+-----+
42   3614   GRAND MESA NO1   KANNAH CREEK       403   6/30/92   204
+-----+
42   3615   GRAND MESA NO6   KANNAH CREEK       206   6/30/92   0
+-----+
42   3616   GRAND MESA NO8   KANNAH CREEK       405   6/30/92   0
+-----+
42   3617   GRAND MESA NO9   KANNAH CREEK       153   5/31/92   0
+-----+
42   3618   HALLENBECK NO1   KANNAH CREEK   577   11/30/91   657   3/31/92   617
+-----+
42   3619   HALLENBECK NO2   KANNAH CREEK     11/30/91   503   5/31/92   150
+-----+
42   3620   JUNIATA RES   KANNAH CREEK   382   11/30/91   2131   5/31/92   329
+-----+
42   3623   SCALES RES NO1   KANNAH CREEK       167   6/30/92   0
+-----+
42   3624   SCALES RES NO3   KANNAH CREEK       129   6/30/92   0
+-----+
42   3625   SOMERVILLE NO1   WHITewater CK       979   5/31/92   0
+-----+
42   3630   ANDERSON NO6   KANNAH CREEK       118   6/30/92   0
+-----+
42     TOTAL FOR WD 42     2272     9646     2483
+-----+
+-----+
59   3665   SPRING CREEK RES   TAYLOR RIVER       8756   6/12/92   5073
+-----+
59   3666   TAYLOR PARK RES   TAYLOR RIVER   80520   11/1/91   90500   7/15/92
+-----+
59     TOTAL FOR WD 59     80520     99256     5073
+-----+
+-----+
60   3507   GURLEY RES   BEAVER CREEK   3239   4/7/92   9541   6/5/92   2423
+-----+
+-----+
62   3532   BLUE MESA RES   GUNNISON RIVER   641000   11/30/91   698000   6/30/92   571000
+-----+
62   3545   MORROW POINT RES   GUNNISON RIVER   114000   11/30/91   114000   4/30/92   109000
+-----+
62   3548   SILVERJACK RES   BIG CIMARRON R       13670   5/10/92   5610
+-----+
62   3578   CRYSTAL RES   GUNNISON RIVER   15000   11/30/91   18000   4/30/92   15000
+-----+
62     TOTAL FOR WD 62     770000     843670     700610
+-----+

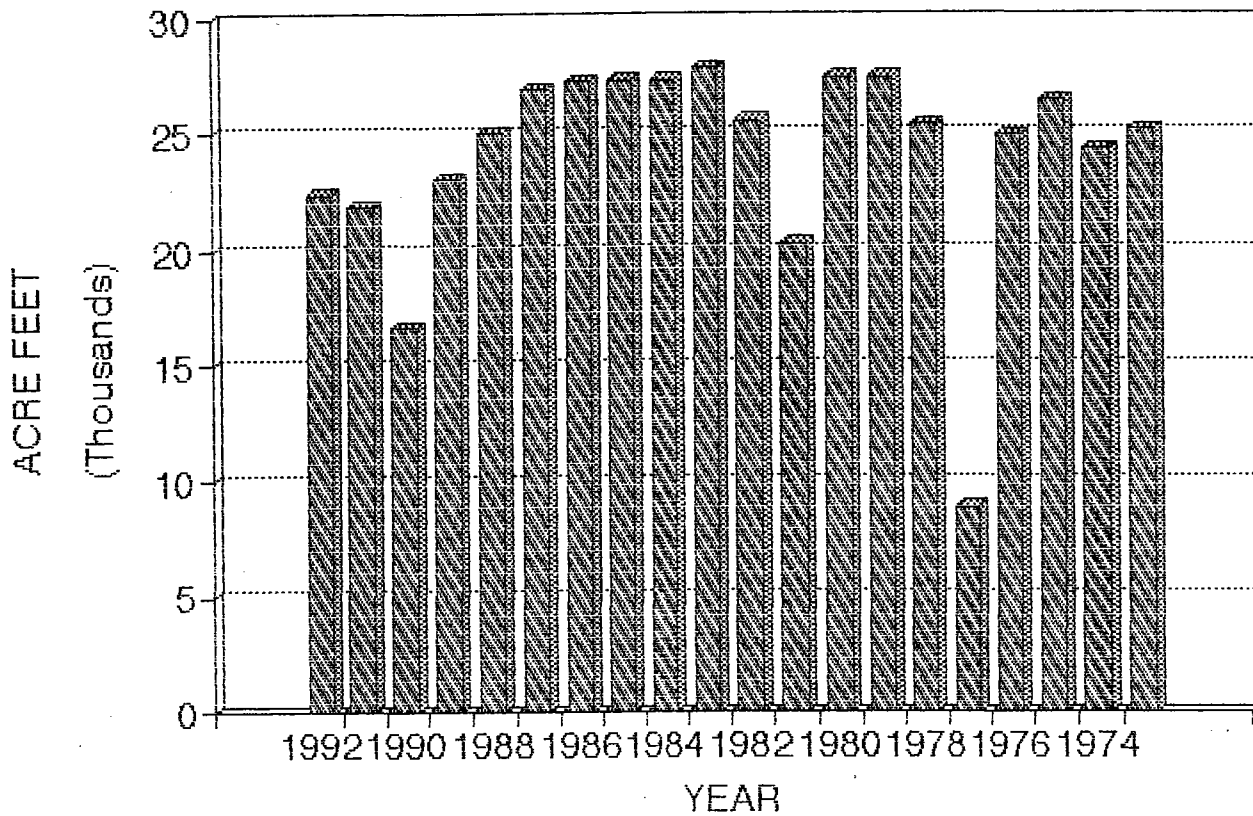


YEARLY TOTAL RESERVOIR STORAGE FOR GRAND MESA WATER USERS

YEAR	PEAK STORAGE AF	% OF TOTAL CAPACITY	CARRY OVER AF	% OF THIS YR STORAGE	% OF TOTAL CAPACITY
1992	22366	80.20%	4702	21	17
1991	21830	78.31%	4882	22	17
1990	16718	59.97%	3853	23	13
1989	23089	82.83%	3979	17	14
1988	25037	89.82%	8490	34	30
1987	26933	96.62%	10020	38	36
1986	27279	97.86%	21794	80	78
1985	27349	98.11%	15701	58	56
1984	27292	97.91%	15964	58	57
1983	27876	100.00%	16442	59	59
1982	25587	91.79%	17345	68	62
1981	20273	72.73%	6865	34	25
1980	27439	98.43%	10292	37	37
1979	27480	98.58%	9433	34	34
1978	25390	91.08%	7858	31	28
1977	8837	31.70%	2304	26	8
1976	24861	89.18%	3653	15	13
1975	26445	94.87%	7864	30	28
1974	24365	87.40%	5076	21	18
1973	25185	90.35%	12023	48	43

# GRAND MESA RESERVOIR STORAGE - D40

## ANNUAL PEAK STORAGE - ACRE FEET



APPENDIX D  
DIVERSION SUMMARY

WATER DIVISION IV IRRIGATION SUMMARY 1992 ACRE FEET

<u>WD</u>	<u>STREAM TO IRR</u>	<u>STORAGE TO IRR</u>	<u>ALL OTHER SOURCE TO IRRIGATION</u>	<u>TOTAL TO IRR</u>	<u>ESTIMATED ACREAGE</u>	<u>AVERAGE AF/ACRE</u>
28	305,128	3096	629	308,853	13,815	22.36
40	396,293	64,755	3	461,051	128,701	3.58
41	49,107	439	586,160	635,706	109,890	5.78
42	22,898	2635		25,533	4,428	5.77
59	298,128		184	298,312	35,220	8.47
60	97,316	15,631	861	113,808	24,080	4.73
61	6,593	1,039	8,518	16,150	1,961	8.24
62	116,258	7,289		123,547	16,561	7.46
63	20,533	785	101	21,419	2,777	7.71
68	103,041		4,734	107,775	16,548	6.51
73	<u>5,842</u>	<u>          </u>	<u>97</u>	<u>5,939</u>	<u>1,495</u>	3.97
	1,421,137	95,669	601,287	2,118,093	355,476	

ANLRPT(2)

SOURCE/USE DIVERSION TOTALS IN ACRE-FEET

	SOURCE										TOTALS	
	Natural Strmflow	Reservr Storage	Ground Water	Trans Basin	Non- Stream	Trans Combined	Trans District	Re-Used	Multiple	Remeasured/ Rediverted		
-----												
** USE **												
Storage (0)	1260	0	0	0	0	0	0	0	0	0	0	1260 (0)
Irrigation (1)	305128	3096	0	0	0	0	0	0	629	0	0	308853 (1)
Municipal (2)	0	0	0	0	0	0	0	0	0	0	0	0 (2)
Commercial (3)	0	0	0	0	0	0	0	0	0	0	0	0 (3)
Industrial (4)	0	0	0	0	0	0	0	0	0	0	0	0 (4)
Recreationl (5)	0	0	0	0	0	0	0	0	0	0	0	0 (5)
Fishery (6)	0	0	0	0	0	0	0	0	0	0	0	0 (6)
Fire (7)	0	0	0	0	0	0	0	0	0	0	0	0 (7)
Domestic (8)	0	0	0	0	0	0	0	0	0	0	0	0 (8)
Stock (9)	0	0	0	0	0	0	0	0	0	0	0	0 (9)
Augmentatn (A)	0	0	0	0	0	0	0	0	0	0	0	0 (A)
Exp Frm Bas (B)	0	0	0	0	0	0	0	0	0	0	0	0 (B)
Cum On Rivr (C)	0	0	0	0	0	0	0	0	0	0	0	0 (C)
Depl From R (D)	0	0	0	0	0	0	0	0	0	0	0	0 (D)
Evaporation (E)	0	0	0	0	0	0	0	0	0	0	0	0 (E)
Fed Reserve (F)	0	0	0	0	0	0	0	0	0	0	0	0 (F)
Geothermal (G)	0	0	0	0	0	0	0	0	0	0	0	0 (G)
Household (H)	0	0	0	0	0	0	0	0	0	0	0	0 (H)
Snow Making (K)	0	0	0	0	0	0	0	0	0	0	0	0 (K)
Min Strmflo (M)	0	0	0	0	0	0	0	0	0	0	0	0 (M)
Net On Rivr (N)	0	0	0	0	0	0	0	0	0	0	0	0 (N)
Power Genr (P)	0	0	0	0	0	0	0	0	0	0	0	0 (P)
Other (Q)	0	0	0	0	0	0	0	0	0	0	0	0 (Q)
Recharge (R)	0	0	0	0	0	0	0	0	0	0	0	0 (R)
Exp From St (S)	0	0	0	0	0	0	0	0	0	0	0	0 (S)
Trn Mtn Exp (T)	0	0	0	0	0	0	0	0	0	0	0	0 (T)
Wildlife (W)	0	0	0	0	0	0	0	0	0	0	0	0 (W)
All Ben Use (X)	0	0	0	0	0	0	0	0	0	0	0	0 (X)
Source Totals (Acre-Feet)	306388	3096	0	0	0	0	0	0	629	0	0	310113

Nonadditive water excluded from all totals. Source totals may not match between report types due to rounding.

Total Acre-Feet Diverted for Non Exempt Water: 310112  
Total Number of Structures for Totals calculated: 252

REPORT DATE: 12/02/1992

DIVISION 4 DISTRICT 40

ANNUAL WATER DIVERSION REPORT

IRRIGATION YEAR: 1991  
(11/01/91 - 10/31/92)

SOURCE/USE DIVERSION TOTALS IN ACRE-FEET

	SOURCE										TOTALS	
	Natural Strmflow	Reservr Storage	Ground Water	Trans Basin	Non- Stream	Trans Combined	Trans District	Re-Used	Multiple	Remeasured/ Rediverted		
** USE **												
Storage (0)	4418	1322	0	0	0	0	0	0	0	0	0	5740 (0)
Irrigation (1)	396293	64755	3	0	0	0	0	0	0	0	0	461051 (1)
Municipal (2)	3587	475	0	0	912	0	0	0	0	0	0	4974 (2)
Commercial (3)	0	0	0	0	0	0	0	0	0	0	0	0 (3)
Industrial (4)	100	0	0	0	11	0	0	0	0	0	0	111 (4)
Recreationl (5)	0	0	0	0	0	0	0	0	0	0	0	0 (5)
Fishery (6)	3849	2	0	0	6530	0	0	0	0	0	0	10381 (6)
Fire (7)	0	0	0	0	0	0	0	0	0	0	0	0 (7)
Domestic (8)	132	0	18	0	45	0	0	0	0	0	0	195 (8)
Stock (9)	5004	0	0	0	2	0	0	0	0	0	0	5006 (9)
Augmentain (A)	0	17	0	0	0	0	0	0	0	0	0	17 (A)
Exp Frm Bas (B)	0	0	0	0	0	0	0	0	0	0	0	0 (B)
Cum On Rivr (C)	0	0	0	0	0	0	0	0	0	0	0	0 (C)
Depl From R (D)	0	0	0	0	0	0	0	0	0	0	0	0 (D)
Evaporation (E)	0	0	0	0	0	0	0	0	0	0	0	0 (E)
Fed Reserve (F)	0	0	0	0	0	0	0	0	0	0	0	0 (F)
Geothermal (G)	0	0	0	0	0	0	0	0	0	0	0	0 (G)
Household (H)	0	0	0	0	0	0	0	0	0	0	0	0 (H)
Snow Making (K)	0	0	0	0	0	0	0	0	0	0	0	0 (K)
Min Strmflo (M)	0	0	0	0	0	0	0	0	0	0	0	0 (M)
Net On Rivr (N)	0	0	0	0	0	0	0	0	0	0	0	0 (N)
Power Genr (P)	0	0	0	0	0	0	0	0	0	0	0	0 (P)
Other (Q)	1359	0	0	0	0	0	0	0	0	0	0	1359 (Q)
Recharge (R)	0	0	0	0	0	0	0	0	0	0	0	0 (R)
Exp From St (S)	0	0	0	0	0	0	0	0	0	0	0	0 (S)
Trn Mtn Exp (T)	0	0	0	0	0	0	0	0	0	0	0	0 (T)
Wildlife (W)	0	0	0	0	0	0	0	0	0	0	0	0 (W)
All Ben Use (X)	0	0	0	0	0	0	0	0	0	0	0	0 (X)
Source Totals (Acre-Feet)	414742	66571	21	0	7500	0	0	0	0	0	0	488834

Nonadditive water excluded from all totals. Source totals may not match between report types due to rounding.

Total Acre-Feet Diverted for Non Exempt Water: 488827  
Total Number of Structures for Totals calculated: 670

REPORT DATE: 12/21/1992



SOURCE/USE DIVERSION TOTALS IN ACRE-FEET

	SOURCE										TOTALS	
	Natural Strmflow	Reservr Storage	Ground Water	Trans Basin	Non-Stream	Combined	Trans District	Re-Used	Multiple	Remeasured/Rediverted		
** USE **												
Storage (0)	0	0	0	0	0	0	0	0	0	0	0	0 (0)
Irrigation (1)	49107	439	0	0	0	0	337830	0	586160	0	0	973536 (1)
Municipal (2)	0	0	0	0	0	0	4458	0	0	0	0	4458 (2)
Commercial (3)	0	0	0	0	0	0	0	0	0	0	0	0 (3)
Industrial (4)	0	0	0	0	0	0	0	0	0	0	0	0 (4)
Recreationl (5)	0	0	0	0	0	0	0	0	0	0	0	0 (5)
Fishery (6)	0	0	0	0	0	0	0	0	0	0	0	0 (6)
Fire (7)	0	0	0	0	0	0	0	0	0	0	0	0 (7)
Domestic (8)	0	0	0	0	0	0	0	0	0	0	0	0 (8)
Stock (9)	25517	0	0	0	0	0	577	0	0	0	0	26094 (9)
Augmentatn (A)	0	0	0	0	0	0	0	0	0	0	0	0 (A)
Exp Frm Bas (B)	0	0	0	0	0	0	0	0	0	0	0	0 (B)
Cum On Rivr (C)	0	0	0	0	0	0	0	0	0	0	0	0 (C)
Depl From R (D)	0	0	0	0	0	0	0	0	0	0	0	0 (D)
Evaporation (E)	0	0	0	0	0	0	0	0	0	0	0	0 (E)
Fed Reserve (F)	0	0	0	0	0	0	0	0	0	0	0	0 (F)
Geothermal (G)	0	0	0	0	0	0	0	0	0	0	0	0 (G)
Household (H)	0	0	0	0	0	0	0	0	0	0	0	0 (H)
Snow Making (K)	0	0	0	0	0	0	0	0	0	0	0	0 (K)
Min Strmflo (M)	0	0	0	0	0	0	0	0	0	0	0	0 (M)
Net On Rivr (N)	0	0	0	0	0	0	0	0	0	0	0	0 (N)
Power Genr (P)	0	0	0	0	0	0	0	0	0	0	0	0 (P)
Other (Q)	0	0	0	0	0	0	0	0	0	0	0	0 (Q)
Recharge (R)	0	0	0	0	0	0	0	0	0	0	0	0 (R)
Exp From St (S)	0	0	0	0	0	0	0	0	0	0	0	0 (S)
Trn Mtn Exp (T)	0	0	0	0	0	0	0	0	0	0	0	0 (T)
Wildlife (W)	0	0	0	0	0	0	0	0	0	0	0	0 (W)
All Ben Use (X)	0	0	0	0	0	0	0	0	0	0	0	0 (X)
Source Totals (Acre-Feet)	74624	439	0	0	0	0	342865	0	586160	0	0	1004088

Nonadditive water excluded from all totals. Source totals may not match between report types due to rounding.

Total Acre-Feet Diverted for Non Exempt Water: 1004088  
Total Number of Structures for Totals calculated: 77

REPORT DATE: 12/11/1992

SOURCE/USE DIVERSION TOTALS IN ACRE-FEET

	SOURCE										TOTALS	
	Natural Strmflow	Reserv Storage	Ground Water	Trans Basin	Non- Stream	Trans Combined	Trans District	Re-Used	Multiple	Remeasured/ Rediverted		
** USE **												
Storage (0)	6385	7446	0	0	0	0	0	0	0	0	0	13831 (0)
Irrigation (1)	22898	2635	0	0	0	0	0	0	0	0	0	25533 (1)
Municipal (2)	0	0	0	0	0	0	0	0	0	0	0	0 (2)
Commercial (3)	0	0	0	0	0	0	0	0	0	0	0	0 (3)
Industrial (4)	367	180	0	0	0	0	0	0	0	0	0	547 (4)
Recreationl (5)	0	0	0	0	0	0	0	0	0	0	0	0 (5)
Fishery (6)	0	0	0	0	0	0	0	0	0	0	0	0 (6)
Fire (7)	0	0	0	0	0	0	0	0	0	0	0	0 (7)
Domestic (8)	2	0	0	0	0	0	0	0	0	0	0	2 (8)
Stock (9)	637	0	0	0	0	0	0	0	0	0	0	637 (9)
Augmentatn (A)	0	0	0	0	0	0	0	0	0	0	0	0 (A)
Exp Frm Bas (B)	29	100	0	0	0	0	0	0	0	0	0	129 (B)
Cum On Rivr (C)	0	0	0	0	0	0	0	0	0	0	0	0 (C)
Depl From R (D)	0	0	0	0	0	0	0	0	0	0	0	0 (D)
Evaporation (E)	0	0	0	0	0	0	0	0	0	0	0	0 (E)
Fed Reserve (F)	0	0	0	0	0	0	0	0	0	0	0	0 (F)
Geothermal (G)	0	0	0	0	0	0	0	0	0	0	0	0 (G)
Household (H)	0	0	0	0	0	0	0	0	0	0	0	0 (H)
Snow Making (K)	0	0	0	0	0	0	0	0	0	0	0	0 (K)
Min Strmflo (M)	0	0	0	0	0	0	0	0	0	0	0	0 (M)
Net On Rivr (N)	0	0	0	0	0	0	0	0	0	0	0	0 (N)
Power Genr (P)	0	0	0	0	0	0	0	0	0	0	0	0 (P)
Other (Q)	0	96	0	0	0	0	0	0	0	0	0	96 (Q)
Recharge (R)	0	0	0	0	0	0	0	0	0	0	0	0 (R)
Exp From St (S)	0	0	0	0	0	0	0	0	0	0	0	0 (S)
Trn Mtn Exp (T)	523831	5353	0	0	0	0	0	0	0	0	0	529184 (T)
Wildlife (W)	0	0	0	0	0	0	0	0	0	0	0	0 (W)
All Ben Use (X)	0	0	0	0	0	0	0	0	0	0	0	0 (X)
Source Totals (Acre-Feet)	554149	15810	0	0	0	0	0	0	0	0	0	569959

Nonadditive water excluded from all totals. Source totals may not match between report types due to rounding.

Total Acre-Feet Diverted for Non Exempt Water: 569958  
Total Number of Structures for Totals calculated: 160

REPORT DATE: 12/02/1992

SOURCE/USE DIVERSION TOTALS IN ACRE-FEET

	SOURCE										TOTALS	
	Natural Strmflow	Reservr Storage	Ground Water	Trans Basin	Non-Stream	Combined	Trans District	Re-Used	Multiple	Remeasured/Rediverted		
-----												
** USE **												
Storage (0)	0	0	0	0	0	0	0	0	0	0	0	0 (0)
Irrigation (1)	298128	0	0	0	184	0	0	0	0	0	0	298312 (1)
Municipal (2)	0	0	1448	0	0	0	1200	0	0	0	0	2648 (2)
Commercial (3)	0	0	0	0	0	0	0	0	0	0	0	0 (3)
Industrial (4)	0	0	0	0	0	0	0	0	0	0	0	0 (4)
Recreationl (5)	0	0	0	0	0	0	0	0	0	0	0	0 (5)
Fishery (6)	0	0	0	0	0	0	0	0	0	0	0	0 (6)
Fire (7)	0	0	0	0	0	0	0	0	0	0	0	0 (7)
Domestic (8)	0	0	0	0	0	0	0	0	0	0	0	0 (8)
Stock (9)	0	0	0	0	0	0	0	0	0	0	0	0 (9)
Augmentatn (A)	0	0	0	0	0	0	0	0	0	0	0	0 (A)
Exp Frm Bas (B)	0	0	0	0	0	0	0	0	0	0	0	0 (B)
Cum On Rivr (C)	0	0	0	0	0	0	0	0	0	0	0	0 (C)
Depl From R (D)	0	0	0	0	0	0	0	0	0	0	0	0 (D)
Evaporation (E)	0	0	0	0	0	0	0	0	0	0	0	0 (E)
Fed Reserve (F)	0	0	0	0	0	0	0	0	0	0	0	0 (F)
Geothermal (G)	0	0	0	0	0	0	0	0	0	0	0	0 (G)
Household (H)	0	0	0	0	0	0	0	0	0	0	0	0 (H)
Snow Making (K)	0	0	0	0	0	0	0	0	0	0	0	0 (K)
Min Strmflo (M)	0	0	0	0	0	0	0	0	0	0	0	0 (M)
Net On Rivr (N)	0	0	0	0	0	0	0	0	0	0	0	0 (N)
Power Genr (P)	0	0	0	0	0	0	0	0	0	0	0	0 (P)
Other (Q)	0	0	0	0	0	0	0	0	0	0	0	0 (Q)
Recharge (R)	0	0	0	0	0	0	0	0	0	0	0	0 (R)
Exp From St (S)	0	0	0	0	0	0	0	0	0	0	0	0 (S)
Trn Mtn Exp (T)	0	0	0	0	0	0	0	0	0	0	0	0 (T)
Wildlife (W)	0	0	0	0	0	0	0	0	0	0	0	0 (W)
All Ben Use (X)	0	0	0	0	0	0	0	0	0	0	0	0 (X)
Source Totals (Acre-Feet)	298128	0	1448	0	184	0	1200	0	0	0	0	300960

Nonadditive water excluded from all totals. Source totals may not match between report types due to rounding.

Total Acre-Feet Diverted for Non Exempt Water: 300961  
Total Number of Structures for Totals calculated: 210

REPORT DATE: 12/19/1992

DIVISION 4 DISTRICT 60

ANNUAL WATER DIVERSION REPORT

IRRIGATION YEAR: 199  
(11/01/91 - 10/31/92)

SOURCE/USE DIVERSION TOTALS IN ACRE-FEET

	SOURCE											TOTALS
	Natural Strmflow	Reservoir Storage	Ground Water	Trans Basin	Non-Stream	Combined	Trans District	Re-Used	Multiple	Remeasured/Rediverted		
-----												
** USE **												
Storage (0)	10478	0	0	0	0	0	0	0	0	0	0	10478 (0)
Irrigation (1)	97316	15631	0	0	861	0	0	0	0	0	0	113808 (1)
Municipal (2)	1505	0	0	0	0	0	0	0	0	0	0	1505 (2)
Commercial (3)	11647	0	112	0	0	0	0	0	0	0	0	11759 (3)
Industrial (4)	232	181	0	0	0	0	0	0	0	0	0	413 (4)
Recreation (5)	270	0	72	0	0	0	0	0	0	0	0	342 (5)
Fishery (6)	1554	0	0	0	0	0	0	0	0	0	0	1554 (6)
Fire (7)	0	0	0	0	0	0	0	0	0	0	0	0 (7)
Domestic (8)	277	0	92	0	236	0	0	0	0	0	0	605 (8)
Stock (9)	125	0	0	22	105	0	0	0	0	0	0	252 (9)
Augmentatn (A)	0	0	0	0	0	0	0	0	0	0	0	0 (A)
Exp Frm Bas (B)	0	0	0	0	0	0	0	0	0	0	0	0 (B)
Cum On Rivr (C)	0	0	0	0	0	0	0	0	0	0	0	0 (C)
Depl From R (D)	0	0	0	0	0	0	0	0	0	0	0	0 (D)
Evaporation (E)	0	0	0	0	0	0	0	0	0	0	0	0 (E)
Fed Reserve (F)	0	0	0	0	0	0	0	0	0	0	0	0 (F)
Geothermal (G)	0	0	0	0	0	0	0	0	0	0	0	0 (G)
Household (H)	0	0	0	0	0	0	0	0	0	0	0	0 (H)
Snow Making (K)	0	0	0	0	0	0	0	0	0	0	0	0 (K)
Min Strmflo (M)	0	0	0	0	0	0	0	0	0	0	0	0 (M)
Net On Rivr (N)	0	0	0	0	0	0	0	0	0	0	0	0 (N)
Power Genr (P)	0	0	0	0	0	0	0	0	0	0	0	0 (P)
Other (Q)	0	0	0	0	0	0	0	0	0	0	0	0 (Q)
Recharge (R)	0	0	0	0	0	0	0	0	0	0	0	0 (R)
Exp From St (S)	0	0	0	0	0	0	0	0	0	0	0	0 (S)
Trn Mtn Exp (T)	0	0	0	0	0	0	0	0	0	0	0	0 (T)
Wildlife (W)	0	0	0	0	0	0	0	0	0	0	0	0 (W)
All Ben Use (X)	0	0	0	0	0	0	0	0	0	0	0	0 (X)
Source Totals (Acre-Feet)	123404	15812	276	22	1202	0	0	0	0	0	0	140716

Nonadditive water excluded from all totals. Source totals may not match between report types due to rounding.

Total Acre-Feet Diverted for Non Exempt Water: 140715  
Total Number of Structures for Totals calculated: 269

REPORT DATE: 12/09/1992

DIVISION 4 DISTRICT 61

ANNUAL WATER DIVERSION REPORT

IRRIGATION YEAR: 1992  
(11/01/91 - 10/31/92)

SOURCE/USE DIVERSION TOTALS IN ACRE-FEET

	SOURCE										TOTALS	
	Natural Strmflow	Reservr Storage	Ground Water	Trans Basin	Non- Stream	Trans Combined	Trans District	Re-Used	Multiple	Remeasured/ Rediverted		
-----												
** USE **												
Storage (0)	56	0	0	0	24	0	3019	0	0	0	3099	(0)
Irrigation (1)	6593	1039	35	0	809	0	7674	0	0	0	16150	(1)
Municipal (2)	0	0	0	0	0	0	0	0	0	0	0	(2)
Commercial (3)	0	0	0	0	0	0	0	0	0	0	0	(3)
Industrial (4)	0	0	0	0	0	0	0	0	0	0	0	(4)
Recreationl (5)	0	0	0	0	0	0	0	0	0	0	0	(5)
Fishery (6)	0	0	0	0	0	0	0	0	0	0	0	(6)
Fire (7)	0	0	0	0	0	0	0	0	0	0	0	(7)
Domestic (8)	6	0	12	0	134	0	0	0	0	0	152	(8)
Stock (9)	812	0	44	0	504	0	0	0	0	0	1360	(9)
Augmentain (A)	0	0	0	0	0	0	0	0	0	0	0	(A)
Exp Frm Bas (B)	0	0	0	0	0	0	0	0	0	0	0	(B)
Cum On Rivr (C)	0	0	0	0	0	0	0	0	0	0	0	(C)
Depl From R (D)	0	0	0	0	0	0	0	0	0	0	0	(D)
Evaporation (E)	0	0	0	0	0	0	0	0	0	0	0	(E)
Fed Reserve (F)	0	0	0	0	0	0	0	0	0	0	0	(F)
Geothermal (G)	0	0	0	0	0	0	0	0	0	0	0	(G)
Household (H)	0	0	0	0	0	0	0	0	0	0	0	(H)
Snow Making (K)	0	0	0	0	0	0	0	0	0	0	0	(K)
Min Strmflo (M)	0	0	0	0	0	0	0	0	0	0	0	(M)
Net On Rivr (N)	0	0	0	0	0	0	0	0	0	0	0	(N)
Power Genr (P)	0	0	0	0	0	0	0	0	0	0	0	(P)
Other (Q)	0	0	23	0	0	0	0	0	0	0	23	(Q)
Recharge (R)	0	0	0	0	0	0	0	0	0	0	0	(R)
Exp From St (S)	0	0	0	0	0	0	0	0	0	0	0	(S)
Trn Mtn Exp (T)	0	0	0	0	0	0	0	0	0	0	0	(T)
Wildlife (W)	0	0	0	0	0	0	0	0	0	0	0	(W)
All Ben Use (X)	0	0	0	0	0	0	0	0	0	0	0	(X)
Source Totals (Acre-Feet)	7467	1039	114	0	1471	0	10693	0	0	0	20784	

Nonadditive water excluded from all totals. Source totals may not match between report types due to rounding.

Total Acre-Feet Diverted for Non Exempt Water: 20785  
Total Number of Structures for Totals calculated: 64

REPORT DATE: 12/10/1992

DIVISION 4 DISTRICT 62

ANNUAL WATER DIVERSION REPORT

IRRIGATION YEAR: 1992  
(11/01/91 - 10/31/92)

SOURCE/USE DIVERSION TOTALS IN ACRE-FEET

	SOURCE										TOTALS	
	Natural Strmflow	Reservoir Storage	Ground Water	Trans Basin	Non- Stream	Combined	Trans District	Re-Used	Multiple	Remeasured/ Rediverted		
** USE **												
Storage (0)	0	0	0	0	0	0	0	0	0	0	0	0 (0)
Irrigation (1)	116258	7289	0	0	0	0	0	0	0	0	0	123547 (1)
Municipal (2)	0	0	0	0	0	0	0	0	0	0	0	0 (2)
Commercial (3)	0	0	0	0	0	0	0	0	0	0	0	0 (3)
Industrial (4)	0	0	0	0	0	0	0	0	0	0	0	0 (4)
Recreation (5)	0	0	0	0	0	0	0	0	0	0	0	0 (5)
Fishery (6)	0	0	0	0	0	0	0	0	0	0	0	0 (6)
Fire (7)	0	0	0	0	0	0	0	0	0	0	0	0 (7)
Domestic (8)	0	0	0	0	0	0	0	0	0	0	0	0 (8)
Stock (9)	0	0	0	0	0	0	0	0	0	0	0	0 (9)
Augmentatn (A)	0	0	0	0	0	0	0	0	0	0	0	0 (A)
Exp Frm Bas (B)	0	0	0	0	0	0	0	0	0	0	0	0 (B)
Cum On Rivr (C)	0	0	0	0	0	0	0	0	0	0	0	0 (C)
Depl From R (D)	0	0	0	0	0	0	0	0	0	0	0	0 (D)
Evaporation (E)	0	0	0	0	0	0	0	0	0	0	0	0 (E)
Fed Reserve (F)	0	0	0	0	0	0	0	0	0	0	0	0 (F)
Geothermal (G)	0	0	0	0	0	0	0	0	0	0	0	0 (G)
Household (H)	0	0	0	0	0	0	0	0	0	0	0	0 (H)
Snow Making (K)	0	0	0	0	0	0	0	0	0	0	0	0 (K)
Min Strmflo (M)	0	0	0	0	0	0	0	0	0	0	0	0 (M)
Net On Rivr (N)	0	0	0	0	0	0	0	0	0	0	0	0 (N)
Power Genr (P)	0	0	0	0	0	0	0	0	0	0	0	0 (P)
Other (Q)	0	0	0	0	0	0	0	0	0	0	0	0 (Q)
Recharge (R)	0	0	0	0	0	0	0	0	0	0	0	0 (R)
Exp From St (S)	0	0	0	0	0	0	0	0	0	0	0	0 (S)
Trn Mtn Exp (T)	0	0	0	0	0	0	0	0	0	0	0	0 (T)
Wildlife (W)	0	0	0	0	0	0	0	0	0	0	0	0 (W)
All Ben Use (X)	0	0	0	0	0	0	0	0	0	0	0	0 (X)
Source Totals (Acre-Feet)	116258	7289	0	0	0	0	0	0	0	0	0	123547

Nonadditive water excluded from all totals. Source totals may not match between report types due to rounding.

Total Acre-Feet Diverted for Non Exempt Water: 123547  
Total Number of Structures for Totals calculated: 129

REPORT DATE: 12/03/1992

DIVISION 4 DISTRICT 63

ANNUAL WATER DIVERSION REPORT

IRRIGATION YEAR: 1991

(11/01/91 - 10/31/92)

SOURCE/USE DIVERSION TOTALS IN ACRE-FEET

	SOURCE										TOTALS	
	Natural Strmflow	Reservr Storage	Ground Water	Trans Basin	Non- Stream	Combined	Trans District	Re-Used	Multiple	Remeasured/ Rediverted		
** USE **												
Storage (0)	98	0	0	0	0	0	0	0	0	0	0	98 (0)
Irrigation (1)	20533	785	101	0	0	0	0	0	0	0	0	21419 (1)
Municipal (2)	0	0	0	0	0	0	0	0	0	0	0	0 (2)
Commercial (3)	0	0	0	0	0	0	0	0	0	0	0	0 (3)
Industrial (4)	0	0	0	0	0	0	0	0	0	0	0	0 (4)
Recreationl (5)	0	0	0	0	0	0	0	0	0	0	0	0 (5)
Fishery (6)	0	0	0	0	0	0	0	0	0	0	0	0 (6)
Fire (7)	0	0	0	0	0	0	0	0	0	0	0	0 (7)
Domestic (8)	6	0	7	0	0	0	0	0	0	0	0	13 (8)
Stock (9)	1195	0	0	0	0	0	0	0	0	0	0	1195 (9)
Augmentatn (A)	0	0	0	0	0	0	0	0	0	0	0	0 (A)
Exp Frm Bas (B)	0	0	0	0	0	0	0	0	0	0	0	0 (B)
Cum On Rivr (C)	0	0	0	0	0	0	0	0	0	0	0	0 (C)
Depl From R (D)	0	0	0	0	0	0	0	0	0	0	0	0 (D)
Evaporation (E)	0	0	0	0	0	0	0	0	0	0	0	0 (E)
Fed Reserve (F)	0	0	0	0	0	0	0	0	0	0	0	0 (F)
Geothermal (G)	0	0	0	0	0	0	0	0	0	0	0	0 (G)
Household (H)	0	0	0	0	0	0	0	0	0	0	0	0 (H)
Snow Making (K)	0	0	0	0	0	0	0	0	0	0	0	0 (K)
Min Strmflo (M)	0	0	0	0	0	0	0	0	0	0	0	0 (M)
Net On Rivr (N)	0	0	0	0	0	0	0	0	0	0	0	0 (N)
Power Genr (P)	0	0	0	0	0	0	0	0	0	0	0	0 (P)
Other (Q)	469	16	0	0	0	0	0	0	0	0	0	485 (Q)
Recharge (R)	0	0	0	0	0	0	0	0	0	0	0	0 (R)
Exp From St (S)	0	0	0	0	0	0	0	0	0	0	0	0 (S)
Trn Mtn Exp (T)	0	0	0	0	0	0	0	0	0	0	0	0 (T)
Wildlife (W)	0	0	0	0	0	0	0	0	0	0	0	0 (W)
All Ben Use (X)	0	0	0	0	0	0	0	0	0	0	0	0 (X)
Source Totals (Acre-Feet)	22301	801	108	0	0	0	0	0	0	0	0	23210

Nonadditive water excluded from all totals. Source totals may not match between report types due to rounding.

Total Acre-Foot Diverted for Non Exempt Water: 23209  
 Total Number of Structures for Totals calculated: 146

REPORT DATE: 12/03/1992

DIVISION 4 DISTRICT 68

ANNUAL WATER DIVERSION REPORT

IRRIGATION YEAR: 1992  
(11/01/91 - 10/31/92)

SOURCE/USE DIVERSION TOTALS IN ACRE-FEET

	SOURCE											TOTALS
	Natural Strmflow	Reservoir Storage	Ground Water	Trans Basin	Non-Stream	Combined	Trans District	Re-Used	Multiple	Remeasured/Rediverted		
-----												
** USE **												
Storage (0)	110	0	0	0	0	0	0	0	0	0	0	110 (0)
Irrigation (1)	103041	0	0	4344	390	0	0	0	0	0	0	107775 (1)
Municipal (2)	331	0	0	0	0	0	0	0	0	0	0	331 (2)
Commercial (3)	0	0	0	0	0	0	0	0	0	0	0	0 (3)
Industrial (4)	0	0	0	0	0	0	0	0	0	0	0	0 (4)
Recreationl (5)	0	0	0	0	0	0	0	0	0	0	0	0 (5)
Fishery (6)	0	0	0	0	0	0	0	0	0	0	0	0 (6)
Fire (7)	0	0	0	0	0	0	0	0	0	0	0	0 (7)
Domestic (8)	41	0	0	0	0	0	0	0	0	0	0	41 (8)
Stock (9)	744	0	0	0	0	0	0	0	0	0	0	744 (9)
Augmentatn (A)	0	0	0	0	0	0	0	0	0	0	0	0 (A)
Exp Frm Bas (B)	0	0	0	0	0	0	0	0	0	0	0	0 (B)
Cum On Rivr (C)	0	0	0	0	0	0	0	0	0	0	0	0 (C)
Depl From R (D)	0	0	0	0	0	0	0	0	0	0	0	0 (D)
Evaporation (E)	0	0	0	0	0	0	0	0	0	0	0	0 (E)
Fed Reserve (F)	0	0	0	0	0	0	0	0	0	0	0	0 (F)
Geothermal (G)	0	0	0	0	0	0	0	0	0	0	0	0 (G)
Household (H)	0	0	0	0	0	0	0	0	0	0	0	0 (H)
Snow Making (K)	0	0	0	0	0	0	0	0	0	0	0	0 (K)
Min Strmflo (M)	0	0	0	0	0	0	0	0	0	0	0	0 (M)
Net On Rivr (N)	0	0	0	0	0	0	0	0	0	0	0	0 (N)
Power Genr (P)	0	0	0	0	0	0	0	0	0	0	0	0 (P)
Other (Q)	0	0	0	0	0	0	0	0	0	0	0	0 (Q)
Recharge (R)	0	0	0	0	0	0	0	0	0	0	0	0 (R)
Exp From St (S)	0	0	0	0	0	0	0	0	0	0	0	0 (S)
Trn Mtn Exp (T)	0	0	0	0	0	0	0	0	0	0	0	0 (T)
Wildlife (W)	0	0	0	0	0	0	0	0	0	0	0	0 (W)
All Ben Use (X)	0	0	0	0	0	0	0	0	0	0	0	0 (X)
Source Totals (Acre-Feet)	104267	0	0	4344	390	0	0	0	0	0	0	109001

Nonadditive water excluded from all totals. Source totals may not match between report types due to rounding.

Total Acre-Feet Diverted for Non Exempt Water: 109000  
Total Number of Structures for Totals calculated: 141

REPORT DATE: 12/21/1992



DIVISION 4 DISTRICT 73

ANNUAL WATER DIVERSION REPORT

IRRIGATION YEAR: 1992  
(11/01/91 - 10/31/92)

SOURCE/USE DIVERSION TOTALS IN ACRE-FEET

	SOURCE										TOTALS	
	Natural Strmflow	Reservr Storage	Ground Water	Trans Basin	Non- Stream	Trans Combined	District	Re-Used	Multiple	Remeasured/ Rediverted		
** USE **												
Storage (0)	7	0	0	0	0	0	0	0	0	0	0	7 (0)
Irrigation (1)	5842	0	0	0	0	0	97	0	0	0	0	5939 (1)
Municipal (2)	0	0	0	0	0	0	99	0	0	0	0	99 (2)
Commercial (3)	0	0	0	0	0	0	0	0	0	0	0	0 (3)
Industrial (4)	2	0	0	0	0	0	0	0	0	0	0	2 (4)
Recreationl (5)	0	0	0	0	0	0	0	0	0	0	0	0 (5)
Fishery (6)	3	0	0	0	0	0	0	0	0	0	0	3 (6)
Fire (7)	0	0	0	0	0	0	0	0	0	0	0	0 (7)
Domestic (8)	2	0	0	0	0	0	0	0	0	0	0	2 (8)
Stock (9)	31	0	0	0	0	0	0	0	0	0	0	31 (9)
Augmentatn (A)	0	0	0	0	0	0	0	0	0	0	0	0 (A)
Exp Frm Bas (B)	0	0	0	0	0	0	0	0	0	0	0	0 (B)
Cum On Rivr (C)	0	0	0	0	0	0	0	0	0	0	0	0 (C)
Depl From R (D)	0	0	0	0	0	0	0	0	0	0	0	0 (D)
Evaporation (E)	0	0	0	0	0	0	0	0	0	0	0	0 (E)
Fed Reserve (F)	0	0	0	0	0	0	0	0	0	0	0	0 (F)
Geothermal (G)	0	0	0	0	0	0	0	0	0	0	0	0 (G)
Household (H)	0	0	0	0	0	0	0	0	0	0	0	0 (H)
Snow Making (K)	0	0	0	0	0	0	0	0	0	0	0	0 (K)
Min Strmflo (M)	0	0	0	0	0	0	0	0	0	0	0	0 (M)
Net On Rivr (N)	0	0	0	0	0	0	0	0	0	0	0	0 (N)
Power Genr (P)	0	0	0	0	0	0	0	0	0	0	0	0 (P)
Other (Q)	0	0	0	0	0	0	0	0	0	0	0	0 (Q)
Recharge (R)	0	0	0	0	0	0	0	0	0	0	0	0 (R)
Exp From St (S)	0	0	0	0	0	0	0	0	0	0	0	0 (S)
Trn Mtn Exp (T)	0	0	0	0	0	0	0	0	0	0	0	0 (T)
Wildlife (W)	0	0	0	0	0	0	0	0	0	0	0	0 (W)
All Ben Use (X)	0	0	0	0	0	0	0	0	0	0	0	0 (X)
Source Totals (Acre-Feet)	5887	0	0	0	0	0	196	0	0	0	0	6083

Nonadditive water excluded from all totals. Source totals may not match between report types due to rounding.

Total Acre-Feet Diverted for Non Exempt Water: 6081  
Total Number of Structures for Totals calculated: 82

REPORT DATE: 1/27/1993

APPENDIX E  
DIVISION IV  
1992 RIVER CALLS

Water District 28

<u>STREAM AFFECTED</u>	<u>NAME OF STRUCTURE</u>	<u>PRIORITY DATE</u>	<u>DATE OF CALL</u>	<u>DURATION OF CALL</u>	<u>PERSON/ CALLING</u>
Hot Sprgs Cr	Hot Sprgs 1 & 2	5-1-1894	7-6-92	7-28-92	L. Stephenson

Water District 40

<u>STREAM AFFECTED</u>	<u>NAME OF STRUCTURE</u>	<u>PRIORITY DATE</u>	<u>DATE OF CALL</u>	<u>DURATION OF CALL</u>	<u>PERSON/ CALLING</u>
Bell Creek	North Fork Orchard	6-17-1889	1992	season	L. McLaughlin
Crystal Creek	CCIS Ditch	12-31-1976	6-30-92	season	Flow
Deep Creek	Deep Creek Ditch	9-28-1907	7-20-92	season	C. Hawkins
Dirty George	Blake Ditch	6-17-1889	7-10-92	season	L. Sanburg
Dirty George	Cedar Park	9-28-1907	7-6-92	season	E. Buchheim
Dirty George	Granby Ditch	6-23-1914	7-5-92	season	C. Hawkins
Dirty George	Obert Ditch	5-28-1937	4-24-92	season	C. Hawkins
Dirty George	Red Haw	6-17-1889	7-10-92	season	L. Sanburg
Dirty George	West Ditch	3-2-1904	5-20-92	flw incr	L. Hilson
Dry Creek	Morton Ditch	6-1-83	6-8-92	season	R. Wolf
Dry Creek	Rimrock Ditch	1-1-86	6-15-92	season	L. Pipher
Dry Creek	Burt & Thompson	6-1-83	6-22-92	season	Burgess
Dry Creek	Welch Ditch	8-28-1920	6-30-92	season	A. Glasser
Forkd Tongue	Orchard Ditch	6-17-1889	7-16-92	season	J. Alward
Forkd Tongue	Perkins Ditch		5-1-92	season	D. Geyer
Hamilton Drw	Hamilton Draw #1		4-20-92	season	D. Geyer
Hamilton Drw	Hixon #1		4-20-92	season	D. Geyer
Hamilton Drw	Hixon #2		4-20-92	season	D. Geyer
Hamilton Drw	McMurray		4-26-92	season	M. Horn
Happy Hollow	Gilger Ditch		7-12-92	season	G. Hanson

Water District 40 cont'd

<u>STREAM AFFECTED</u>	<u>NAME OF STRUCTURE</u>	<u>PRIORITY DATE</u>	<u>DATE OF CALL</u>	<u>DURATION OF CALL</u>	<u>PERSON/ CALLING</u>
Happy Hollow	H. J. Neighbors	6-23-1914	5-24-92	season	C. Owens
Happy Hollow	Happy Hollow Ditch	9-28-1907	6-24-92	season	J. Alward
Happy Hollow	Lucky No. 2	9-28-1907	6-24-92	season	D. Geyer
Happy Hollow	Lucky No. 1	9-28-1907	6-24-92	season	D. Geyer
Jay Creek	Estes Ditch	2-10-1930	5-11-92	season	B. Lemoine
Kiser Creek	Billy's Cross	5-28-1937	6-30-92	season	A. Glasser
Kiser Creek	Kile Ditch	8-28-1920	6-30-92	season	H. Medill
Kiser Creek	Kiser	8-16-1886	4-28-92	season	Kasinger
Kiser Creek	Lake Fork	7-26-1886	7-1-92	season	Bull
Kiser Creek	Ledge Ditch	5-28-1937	6-30-92	season	A. Glasser
Kiser Creek	Scrub Oak	5-1-1902	4-21-92	season	Mooney
Kiser Creek	Surface Creek Ditch	6-17-1889	4-28-92	season	Kissner
Leroux Creek	Currant Creek Ditch	6-17-1889	7-17-92	season	R. Wolf
Leroux Creek	Highline Ditch	6-17-1889	6-9-92	38 days	S. Smith
Leroux Creek	Stull Ditch	3-20-1908	6-2-92	6 days	D. Hawkins
Minnesota	Minnesota Ditch	4-12-1901	7-3-92	season	G. Farnsworth
Smith Fork	Clipper Ditch	6-17-1889	8-4-92	season	W. Comm
Smith Fork	Needle Rock Ditch	6-17-1889	6-22-92	season	W. Comm
Surface Creek	Alfalfa Ditch	6-23-1914	5-26-92	flw chng	England
Surface Creek	Cedar Mesa Ditch	9-28-1907	6-2-92	flw chng	Burgess
Surface Creek	Cold Water Ditch	9-28-1907	5-6-92	flw chng	McPherson
Surface Creek	Cook Ditch	3-1-1882	6-21-92	flw chng	Cedaredge
Surface Creek	Fogg Ditch	4-21-1885	5-11-92	flw chng	Schroeder
Surface Creek	Horseshoe Ditch	6-17-1889	5-23-92	flw chng	McPherson
Surface Creek	Lone Pine Ditch	9-28-1907	5-30-92	flw chng	McPherson
Surface Creek	Omega Ditch	9-28-1907	4-7-92	flw chng	Hamilton
Surface Creek	Orchard Ranch	2-21-1883	6-4-92	flw chng	J. Latta
Surface Creek	Pelezini Ditch	9-28-1907	5-7-92	flw chng	C. Lutje
Surface Creek	Settle Ditch	3-25-1884	6-20-92	flw chng	B. Hawkins
Surface Creek	Trickle Ditch	3-1-1887	6-9-92	flw chng	Hamilton
Surface Creek	Weir & Johnson	9-28-1907	5-21-92	flw chng	J. Vela
Ward Creek	Bryson Ditch	8-28-1920	7-3-92	season	W. Gilmore

Water District 40 cont'd

<u>STREAM AFFECTED</u>	<u>NAME OF STRUCTURE</u>	<u>PRIORITY DATE</u>	<u>DATE OF CALL</u>	<u>DURATION OF CALL</u>	<u>PERSON/ CALLING</u>
Ward Creek	Carbon Ditch	9-28-1907	7-2-92	season	L. Mattire
Ward Creek	Granby Rowell	9-28-1907	6-21-92	season	G. Bertram
Ward Creek	Sandstone Bluff	6-17-1889	7-5-92	season	E. Buchheim
Ward Creek	Sunrise Ditch	9-28-1907	6-21-92	season	A. Peterson
Ward Creek	Todd Ditch	9-28-1907	6-21-92	season	D. Parker
Ward Creek	Williams #2	9-28-1907	7-2-92	season	P. Fenton
Youngs Creek	Broncho	4-15-1886	6-23-92	season	Frost
Youngs Creek	Cherokee	4-1-1896	5-16-92	season	B. Kissner
Youngs Creek	Childs	12-23-1885	7-2-92	season	Bull
Youngs Creek	Lookout	4-14-1899	6-1-92	season	B. Morris
Youngs Creek	Santa Fe	12-29-1887	6-1-92	season	T. Betz

Water District 41

<u>STREAM AFFECTED</u>	<u>NAME OF STRUCTURE</u>	<u>PRIORITY DATE</u>	<u>DATE OF CALL</u>	<u>DURATION OF CALL</u>	<u>PERSON/ CALLING</u>
Duckett	Mock Ditch	7-3-1929	5-7-92	season	G. Pope
Horsefly Cr	Albrush Ditch	7-3-1929	7-1-92	season	Sanders

Water District 42

<u>STREAM AFFECTED</u>	<u>NAME OF STRUCTURE</u>	<u>PRIORITY DATE</u>	<u>DATE OF CALL</u>	<u>DURATION OF CALL</u>	<u>PERSON/ CALLING</u>
East Creek	Lurvey Ditch #1	6-1-1916	3-31-92	10-31-92	R. Tipping
Kannah Creek	Brown & Campion	7-25-1888	5-1-92	10-31-92	B. Blair
Kannah Creek	Kannah Creek Extension	7-25-1888	4-22-92	5-1-92	Gardner

Water District 59

No calls

Water District 60

No calls

Water District 61

<u>STREAM AFFECTED</u>	<u>NAME OF STRUCTURE</u>	<u>PRIORITY DATE</u>	<u>DATE OF CALL</u>	<u>DURATION OF CALL</u>	<u>PERSON/ CALLING</u>
Paradox Creek	All Structures		6-26-92	9-15-92	

Water District 62

<u>STREAM AFFECTED</u>	<u>NAME OF STRUCTURE</u>	<u>PRIORITY DATE</u>	<u>DATE OF CALL</u>	<u>DURATION OF CALL</u>	<u>PERSON/ CALLING</u>
Lake Fork	Johnson Ditch	5-8-1913	7-9-92	season	T. Thomas
Lake Fork	Reece Richard #2	4-21-1941	7-2-92	season	McJunccken
Littl Cimarron	Collier Ditch	11-1-1905	7-20-92	season	Doc Orme

Water District 63

<u>STREAM AFFECTED</u>	<u>NAME OF STRUCTURE</u>	<u>PRIORITY DATE</u>	<u>DATE OF CALL</u>	<u>DURATION OF CALL</u>	<u>PERSON/ CALLING</u>
West Creek	Bartholomew & Hatch	2-11-1939	7-27-92	8-17-92	B. Shaffer

Water District 68

<u>STREAM AFFECTED</u>	<u>NAME OF STRUCTURE</u>	<u>PRIORITY DATE</u>	<u>DATE OF CALL</u>	<u>DURATION OF CALL</u>	<u>PERSON/ CALLING</u>
Dallas	Dallas Ditch	5-1-1885	6-8-92	6-20-92	P. Decker
Dallas	James Stewart Ditch	4-13-1917	6-9-92	season	E. Lewis
Dallas	Oake Jerome	5-1-1882	6-9-92	season	R. Hutt
Dallas	Scott McNeil Ditch	10-15-1884	6-8-92	6-20-92	G. Adams
Horsefly	Albush Ditch		5-28-92	season	Saunders

Water District 73

<u>STREAM AFFECTED</u>	<u>NAME OF STRUCTURE</u>	<u>PRIORITY DATE</u>	<u>DATE OF CALL</u>	<u>DURATION OF CALL</u>	<u>PERSON/ CALLING</u>
Chiquito Dolo Coat Creek	Upper Saxbury Ditch Mooreland Ditch	6-1-1916 7-25-1941	4-24-92 4-12-92	season season	Greenvoy VanLoan

RVRCALLS

APPENDIX F

SUMMARY OF VISITATIONS AND STRUCTURES

1992

<u>Water District</u>	<u>Number Observed</u>	<u>Structures With 92 Record</u>	<u>Total Structures</u>	<u>Total Active Structures</u>	<u>Inactive Historic Structures</u>	<u>Observ/per Structure W/Record</u>	<u>% of Total Act. Structures W/92Record</u>
28	2823	312	773	550	223	9	57
40	18089	1123	2570	2045	525	16	55
41	2635	102	574	377	197	26	27
42	3950	224	358	318	40	18	70
59	1903	219	1490	1365	125	9	16
60	1757	285	1231	1116	115	6	25
61	1885	107	141	117	24	18	91
62	576	136	981	899	82	4	15
63	1321	182	218	192	26	7	95
68	1624	153	904	769	135	11	20
73	247	102	117	102	15	2	100

92VIS 36,810 2945

WATER DIVISION NO. IV

ACTIVITY SUMMARY

DECEMBER, 1992

ACTIVITY	MONTHLY TOTAL	TO DATE
Number of professional and technical staff		5
Number of clerical staff		2
Number of Water Commissionr FTE assigned (full and part-time)		22
Number of decreed water rights	16	82
Number of surface rights administered		3,051
Number of wells		400
Number of plans for augmentation	1	1
Number of consultations with Referee	22	77
Number of Water Court appearances	6	39
Number of meetings with water users	6	71
Number of meetings to resolve water related disputes	2	30
Number of contacts to give public assistance on water matters		
Office		
Personal Contacts	44	
Telephone Contacts	178	
Letter Contacts	19	
	241	
Water Commissioners		
Personal Contacts	67	
Telephone Contacts	211	
Letter Contacts	2	
	280	
	Total	7,484
Number of contacts to other government agencies	14	94

SUM

Structures abandoned on interlocutory decree--128



APPENDIX F

WATER COURT ACTIVITIES

Applications for Decrees	216
Consultations with Referee	157
Decrees Issued by Water Court	96
Dismissals	5
Complaints	0

	# Cases	# Struc.
New Cond. & Diligence on Cond. Rights	33	55
Cancellations of Cond. Rights	11	9
Conditional Rights Made Absolute	44	65
Underground Water Rights Adjudicated	5	13
Surface Water Rights Adjudicated	70	93
Water Storage Rights Adjudicated	20	37
Plans for Augmentation Adjudicated	2	7
Change of Water Rights/Location	6	13
Change of Water Rights/Use Adj.	2	5
Instream Flow Rights Adjudicated	<u>0</u>	<u>0</u>
Total	193	297

133 Water Rights Abandoned by the Court

V. TABLE OF ORGANIZATION - PERSONNEL  
IRRIGATION DIVISION NO. 4

Division Engineer - Keith C. Kepler  
 Assistant Division Engineer - Kenneth W. Knox  
 Secretary - Jean Kurtz  
 Typist B - Bonnie Trujillo  
 Hydrographer - Charles G. David  
 Resident Dam Safety Engineer - James G. Norfleet  
 Engineering Phys. Science Tech. Assist. Aide - Jerry Thrush

Water District 28

WATER COMMISSIONER  
Wesley Robinson

Water District 40

PR. WATER COMMISSIONER  
Jimmie Boyd  
  
 SR. WATER COMMISSIONER  
\*Robert H. Starr

Water District 41

WATER COMMISSIONER  
\*Crandall Howard

Water District 42

SR. WATER COMMISSIONER  
\*Richard Belden

WATER COMMISSIONER  
Jack Carter

WATER COMMISSIONERS  
Gail Brooks  
\*\*Cliff Davis  
Merritt Denison  
\*\*Rod Hamilton  
Henry LeValley  
Albert Mahannah  
Kenneth Mahannah  
John L. McHugh  
L. Gregg Scott  
Charles Stein  
Stephen Tuck

Water District 59

WATER COMMISSIONER  
Robert Drexel

Water District 60

WATER COMMISSIONER  
Lyman Campbell

Water District 61

WATER COMMISSIONER  
Clinton L. Oliver

Water District 62

WATER COMMISSIONER  
Crandall Howard  
\*\*Ed Hofmann

Water District 63

SR. WATER COMMISSIONER  
\*Richard Belden

Water District 68

WATER COMMISSIONER  
H. Roger Noble

Water District 73

SR. WATER COMMISSIONER  
\*Richard Belden

\*Annual  
\*\*Temporary

92TOP