DIVISION OF WATER RESOURCES

DIVISION NO. 6

1976 ANNUAL REPORT

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I. INTRODUCTORY STATEMENT

Geographically, Irrigation Division Six is comprised of high mountains, irrigated valleys, farmed mesas, desert range land and deep canyons. The area of the Division is the natural drainage of the Yampa, Green, Little Snake, White and North Platte Rivers. Precipitation varies from seven inches annually in the most westerly regions to over forty inches in the eastern high mountains with an average of twenty inches in the crop producing portions of the Division. The majority of the precipitation is in the form of snow during the winter months, however, some areas do receive adequate rain to permit the growing of small grain crops and dry land hay.

Primarily the irrigation is on mountain meadows producing hay and irrigated pasture. This acreage is approximately as follows for various drainages: Yampa River - 100,000 acres, White River - 30,000 acres and 120,000 acres for the North Platte drainage. Dry farming in the North Platte drainage is practically nonexistent due to the short growing season and a minimum elevation of 8,000 feet. The dry crop acreage in the Yampa basin is approximately 131,000 acres and the White River drainage has approximately 17,000 acres. Dry land crops

consist of wheat, oats and barley. The land is generally summer fallowed which for the most part means only fifty percent of the land is in production annually.

The population in Division No. 6 is sparse with most of the population being in Craig, Steamboat Springs and Meeker. As a result of the national energy crisis, the city of Craig is presently showing the most rapid growth. Several coal mines are being opened in the Craig area and construction has started on a new fossil fuel power plant. Meeker is located near the two tracts of land that were recently leased from the Federal Government for oil shale development which is resulting in a slight population growth in that area. Steamboat Springs has stabilized to some degree and is not at present experiencing the phenomenal growth that it has had in the past.

Agriculture is the primary industry in the entire Division. Industry, though, particularly coal mining, is rapidly becoming a key source of revenue to Routt and Moffat Counties. Recreational development has stabilized with only one additional project planned. The oil shale industry, as of yet, has not caught fire, although there are several people being employed in making studies and formulating development plans.

The only area to receive substantial increases in population has been Craig. With the planned opening of two additional strip mines and work being in full swing on the power plant, many people have been attracted to the region. Several new trailer parks along with subdivisions have been started.

II. PERSONNEL

A.

NAME	POSITION	DISTRICT	FY 75-76 MONTHS WORKED	BUDGETED	FY 75-76 MILEAGE
Wesley E. Signs	Division Engineer		Full Time		720
Daries C. Lile	Assistant Div. Engineer		Full Time		360
W. Kent Holt	Hydrographer (Sabbatical Leave) Returned 8-1-76		Full Time		0
Linda L. Fox	Secretary		Full Time		0
Roy D. Steffen	1042 Water Commissioner		Full Time		0
Joe E. Brown	Water Commissioner B	43	Full Time		0
*William Dunham	Water Commissioner A	43	12	2	21,350
Ben E. Cordle	Water Commissioner B	44	Full Time		18,365
Neil Black	Water Commissioner B	47	Full Time		5,459
Donald C. Gilroy	Water Commissioner B	54	4.3	6	4,629
Jack Leonard	Water Commissioner B	55-56	3.1	5	5,590
James E. Sellers	Water Commissioner B	57	7.7	7	7,407
Charles Gregory	Water Commissioner B	58	Full Time		7,452
Billy R. Milner	Water Commissioner B	58	5.7	8	3,282
Eric H. Wagner	Water Commissioner A	58	8.2	3	5,523
*Kenneth Johnson	Water Commissioner A	43	8.5	0	0

*Additional time above budget allotment was paid for with Piceance Basin Study funds.

III. WATER SUPPLY

A. Forecast

Below normal precipitation and runoff was the rule for Division 6 with the North Platte River only producing 62 percent of its average yield. As a result, both peak and late season flows were well below normal levels. Good summer precipitation did, however, help to alleviate some short water supply situations.

B. Precipitation

Precipitation for selected stations in Division No. 6:

	Steamboat Springs			Hayden			Walden		
	1976	DN	NORM.	1976	DN	NORM.	1976	DN	NORM.
November	2.96	1.01	1.95	1.84	.64	1.20	1.03	.49	.54
December	.91	-1.69	2.60	.64	-.89	1.53	.32	-.22	.54
January	2.06	-.40	2.46	1.09	-.18	1.27	.26	-.25	.51
February	1.58	-.56	2.14	.48	-.67	1.15	.50	.08	.42
March	1.52	-.50	2.02	.76	-.46	1.22	.81	.31	.50
April	2.35	.01	2.34	1.32	-.31	1.63	.76	.04	.72
May	2.69	.62	2.07	1.71	.32	1.39	2.19	1.17	1.02
June	1.84	---	1.84	1.67	.18	1.49	.67	-.44	1.11
July	1.15	-.28	1.43	1.10	-.03	1.13	.95	-.29	1.24
August	1.13	-.48	1.61	1.49	.09	1.40	1.37	.08	1.29
September	1.82	.23	1.59	.99	-.20	1.19	(1.00)	.01	.99
October	.54	-1.28	1.82	(.40)	-1.11	1.51	(.30)	-.83	1.13
	20.55	-3.32	23.87	13.49	-2.62	16.11	10.16	2.15	10.01
	86% of Normal			84% of Normal			101% of Normal		

Runoff -

	SCS % Average Yield May 1 Prediction for April - September	Actual Yield in % Average for Water Year 1976
Yampa R. nr. Maybell	85%	73%
White R. nr. Meeker	100%	
Yampa R. nr. Steamboat	84%	81%
Little Snake R. nr. Lily	91%	92%
N. Platte R. @ N. Gate	102%	62%

Early season predictions indicate that the 1977 water year may again be well below normal. The precipitation for the months of October and November are only 30% of normal with soil moisture and reservoir storage well below last year

C. Flooding

There was no serious flooding in the Division during the past season.

D. Water Budget - 1976 Water Year

A computerized water budget was designed in December of 1976 for Water Division 6. The program is operational on the IBM 1130 system. The program has the following features:

1. Reservoir evaporation is computed as a function of temperature. This function was derived from a regression analysis of temperature and evaporation pan data for Western Colorado.

2. Irrigation depletion is calculated through the growing season using Blaney-Criddle methodology in conjunction with temperature and precipitation data for selected stations.

3. Basin yields are calculated as the sum of irrigation depletion, reservoir evaporation, change in reservoir storage, municipal and industrial consumption, transmountain diversions and miscellaneous use.

Notes on input - output --

1. White River outflow estimated

2. Little Snake River Basin (District 54) figures do not reflect water produced or consumed in Wyoming.

3. Yampa River miscellaneous include estimated return flow from Maybell Canal going around gage.

4. PCT - CONS is fraction of Basin Yield consumed.

5. Green River Basin (District 56) outflow is estimated as the total yield of Pot Creek, Vermillion Creek and Beaver Creek within the State of Colorado.

6. Transmountain diversions out of a Basin are positive, those into a Basin, negative.

RESERVOIR EVAPORATION AND

IRRIGATION DEPLETION OUTPUT

BY DISTRICT

WATER DISTRICT 43

RESERVOIR EVAPORATION AT 6130. FT.

MONTH	EVAPORATION(INCHES)		NET DEPLETION(AF.)
11	1.58		42.
12	0.70		18.
1	0.52		13.
2	0.70		18.
3	0.70		20.
4	2.95		98.
5	4.24		159.
6	5.05		189.
7	6.23		207.
8	5.69		166.
9	4.93		139.
10	3.47		95.
	36.81	TOTALS	1170.

IRRIGATION CONSUMPTIVE USE

ELEV. 6347. FT. 18367. IRR. ACRES IRR. SEASON 5/ 1/1976 - 9/30/1976

MONTH	DEPLETION (INCHES)
5	3.31
6	3.87
7	4.34
8	4.14
9	3.03
	18.89 YEARLY TOTAL

NET DEPLETION = 28917.ACRE FT. 1.574 ACRE FT. PER ACRE

ELEV. 6100. FT. 7586. IRR. ACRES IRR. SEASON 4/10/1976 - 7/31/1976

MONTH	DEPLETION (INCHES)
4	1.74
5	3.51
6	4.05
7	4.53
	13.84 YEARLY TOTAL

NET DEPLETION = 8752.ACRE FT. 1.153 ACRE FT. PER ACRE

ELEV. 7000. FT. 4552. IRR. ACRES IRR. SEASON 6/ 1/1976 - 8/15/1976

MONTH	DEPLETION (INCHES)
6	3.53
7	3.99
8	1.84
	9.37 YEARLY TOTAL

NET DEPLETION = 3554.ACRE FT. 0.780 ACRE FT. PER ACRE

IRRIGATION TOTALS FOR WATER DISTRICT 43

41224. A.F. NET IRRIGATION DEPLETION 1.351 A.F./ACRE 30505.IRR. ACRES

WATER DISTRICT 44

RESERVOIR EVAPORATION AT 6390. FT.

MONTH	EVAPORATION(INCHES)	NET DEPLETION(AF.)
11	0.70	43.
12	0.52	32.
1	0.52	32.
2	0.52	34.
3	0.52	37.
4	3.17	237.
5	4.07	322.
6	4.96	411.
7	6.26	495.
8	5.60	397.
9	4.75	317.
10	3.23	202.
	34.87 TOTALS	2566.

IRRIGATION CONSUMPTIVE USE

ELEV. 6100. FT. 23832. IRR. ACRES IRR. SEASON 5/15/1976 - 9/20/1976

MONTH	DEPLETION (INCHES)
5	1.78
6	3.82
7	5.07
8	4.04
9	2.20
	16.93 YEARLY TOTAL

NET DEPLETION = 33626.ACRE FT. 1.410 ACRE FT. PER ACRE

ELEV. 6500. FT. 7000. IRR. ACRES IRR. SEASON 5/22/1976 - 7/31/1976

MONTH	DEPLETION (INCHES)
5	0.97
6	3.55
7	4.75
	9.27 YEARLY TOTAL

NET DEPLETION = 5412.ACRE FT. 0.773 ACRE FT. PER ACRE

IRRIGATION TOTALS FOR WATER DISTRICT 44

39038. A.F. NET IRRIGATION DEPLETION 1.266 A.F./ACRE 30832.IRR. ACRES

WATER DISTRICT 47

RESERVOIR EVAPORATION AT 8099. FT.

MONTH	EVAPORATION(INCHES)		NET DEPLETION(AF.)
11	0.60		128.
12	0.60		130.
1	0.60		138.
2	0.60		142.
3	0.60		146.
4	2.41		647.
5	3.58		1071.
6	4.70		1421.
7	5.75		1486.
8	5.04		1193.
9	4.14		918.
10	2.82		573.
	31.48	TOTALS	8001.

IRRIGATION CONSUMPTIVE USE

ELEV. 8099. FT. 120199. IRR. ACRES IRR. SEASON 5/19/1976 - 7/20/1976

MONTH	DEPLETION (INCHES)	
5	1.24	
6	4.50	
7	3.24	
	8.99	YEARLY TOTAL

NET DEPLETION = 90054.ACRE FT. 0.749 ACRE FT. PER ACRE

IRRIGATION TOTALS FOR WATER DISTRICT 47

90054. A.F. NET IRRIGATION DEPLETION 0.749 A.F./ACRE 120199.IRR. ACRES

WATER DISTRICT 54

RESERVOIR EVAPORATION AT 6200. FT.

MONTH	EVAPORATION(INCHES)	NET DEPLETION(AF.)
11	0.70	4.
12	0.52	3.
1	0.52	3.
2	0.52	3.
3	0.52	3.
4	3.25	21.
5	4.15	34.
6	5.04	42.
7	6.34	42.
8	5.69	33.
9	4.84	24.
10	3.32	13.
	35.47 TOTALS	228.

IRRIGATION CONSUMPTIVE USE

ELEV. 6200. FT. 9430. IRR. ACRES IRR. SEASON 5/15/1976 - 8/31/1976

MONTH	DEPLETION (INCHES)
5	1.77
6	3.79
7	5.04
8	4.01
	14.63 YEARLY TOTAL

NET DEPLETION = 11499.ACRE FT. 1.219 ACRE FT. PER ACRE

IRRIGATION TOTALS FOR WATER DISTRICT 54

11499. A.F. NET IRRIGATION DEPLETION 1.219 A.F./ACRE 9430.IRR. ACRES

WATER DISTRICT 55

RESERVOIR EVAPORATION AT 5354. FT.

MONTH	EVAPORATION(INCHES)		NET DEPLETION(AF.)
11	0.70		0.
12	0.52		0.
1	0.52		0.
2	0.70		0.
3	1.55		0.
4	3.17		0.
5	4.49		0.
6	5.04		0.
7	6.23		0.
8	5.67		0.
9	4.87		0.
10	3.24		0.
	36.75	TOTALS	0.

IRRIGATION CONSUMPTIVE USE

ELEV. 5400. FT. 1267. IRR. ACRES IRR. SEASON 4/15/1976 - 7/31/1976

MONTH	DEPLETION (INCHES)
4	1.49
5	3.84
6	4.51
7	5.68
	15.52 YEARLY TOTAL

NET DEPLETION = 1640.ACRE FT. 1.294 ACRE FT. PER ACRE

IRRIGATION TOTALS FOR WATER DISTRICT 55

1640. A.F. NET IRRIGATION DEPLETION 1.294 A.F./ACRE 1267.IRR. ACRES

WATER DISTRICT 56

RESERVOIR EVAPORATION AT 5354. FT.

MONTH	EVAPORATION(INCHES)	NET DEPLETION(AF.)
11	0.70	17.
12	0.52	13.
1	0.52	13.
2	0.70	20.
3	1.55	58.
4	3.17	132.
5	4.49	187.
6	5.04	189.
7	6.23	207.
8	5.67	165.
9	4.87	121.
10	3.24	81.
	36.75 TOTALS	1207.

IRRIGATION CONSUMPTIVE USE

ELEV. 5400. FT. 1280. IRR. ACRES IRR. SEASON 4/15/1976 - 7/31/1976

MONTH	DEPLETION (INCHES)
4	1.49
5	3.84
6	4.51
7	5.68
	15.53 YEARLY TOTAL

NET DEPLETION = 1656.ACRE FT. 1.294 ACRE FT. PER ACRE

IRRIGATION TOTALS FOR WATER DISTRICT 56

1656. A.F. NET IRRIGATION DEPLETION 1.294 A.F./ACRE 1280.IRR. ACRES

WATER DISTRICT 57

RESERVOIR EVAPORATION AT 6700. FT.

MONTH	EVAPORATION(INCHES)		NET DEPLETION(AF.)
11	0.70		14.
12	0.52		10.
1	0.52		10.
2	0.52		10.
3	0.52		11.
4	3.03		68.
5	3.93		98.
6	4.82		120.
7	6.12		137.
8	5.46		113.
9	4.61		92.
10	3.09		61.
	33.89	TOTALS	751.

IRRIGATION CONSUMPTIVE USE

ELEV. 6375. FT. 9000. IRR. ACRES IRR. SEASON 5/ 1/1976 - 9/ 5/1976

MONTH	DEPLETION (INCHES)
5	3.19
6	3.74
7	4.99
8	3.96
9	0.53
	16.44 YEARLY TOTAL

NET DEPLETION = 12332.ACRE FT. 1.370 ACRE FT. PER ACRE

ELEV. 6700. FT. 5733. IRR. ACRES IRR. SEASON 6/ 1/1976 - 7/31/1976

MONTH	DEPLETION (INCHES)
6	3.34
7	4.50
	7.85 YEARLY TOTAL

NET DEPLETION = 3752.ACRE FT. 0.654 ACRE FT. PER ACRE

IRRIGATION TOTALS FOR WATER DISTRICT 57

16084. A.F. NET IRRIGATION DEPLETION 1.091 A.F./ACRE 14733.IRR. ACRES

WATER DISTRICT 58

RESERVOIR EVAPORATION AT 8000. FT.

MONTH	EVAPORATION(INCHES)	NET DEPLETION(AF.)
11	0.52	65.
12	0.52	63.
1	0.52	61.
2	0.52	59.
3	0.52	61.
4	1.81	226.
5	2.93	489.
6	3.64	607.
7	4.84	713.
8	4.35	489.
9	3.56	398.
10	2.30	257.
	26.07 TOTALS	3492.

IRRIGATION CONSUMPTIVE USE

ELEV. 6770. FT. 14603. IRR. ACRES IRR. SEASON 6/ 1/1976 - 8/31/1976

MONTH	DEPLETION (INCHES)
6	3.09
7	4.20
8	3.60
	10.90 YEARLY TOTAL

NET DEPLETION = 13270.ACRE FT. 0.908 ACRE FT. PER ACRE

ELEV. 7000. FT. 14602. IRR. ACRES IRR. SEASON 6/10/1976 - 9/ 5/1976

MONTH	DEPLETION (INCHES)
6	2.12
7	4.13
8	3.55
9	0.39
	10.21 YEARLY TOTAL

NET DEPLETION = 12430.ACRE FT. 0.851 ACRE FT. PER ACRE

ELEV. 7700. FT. 14603. IRR. ACRES IRR. SEASON 6/ 1/1976 - 8/31/1976

MONTH	DEPLETION (INCHES)
6	3.09
7	4.20
8	3.60
	10.90 YEARLY TOTAL

NET DEPLETION = 13270.ACRE FT. 0.908 ACRE FT. PER ACRE

IRRIGATION TOTALS FOR WATER DISTRICT 58

38971. A.F. NET IRRIGATION DEPLETION 0.889 A.F./ACRE 43808.IRR. ACRES

TOTAL CONSUMPTIVE USE

OUTPUT BY DISTRICTS

SUMMARY FOR WATER DISTRICT 43 IN ACRE-FT

IRRIGATION DEPLETION	41224.
RESERVOIR EVAPORATION	1170.
CHANGE IN RESERVOIR STORAGE	-1660.
TRANSMOUNTAIN DIVERSIONS	0.
MUNICIPAL+INDUSTRIAL CONSUMPTION	6223.
MISC. USE OR CORRECTIONS	500.
TOTAL DEPLETION	47458.

SUMMARY FOR WATER DISTRICT 44 IN ACRE-FT

IRRIGATION DEPLETION	39038.
RESERVOIR EVAPORATION	2566.
CHANGE IN RESERVOIR STORAGE	-754.
TRANSMOUNTAIN DIVERSIONS	460.
MUNICIPAL+INDUSTRIAL CONSUMPTION	800.
MISC. USE OR CORRECTIONS	16500.
TOTAL DEPLETION	58610.

SUMMARY FOR WATER DISTRICT 47 IN ACRE-FT

IRRIGATION DEPLETION	90054.
RESERVOIR EVAPORATION	8001.
CHANGE IN RESERVOIR STORAGE	-1113.
TRANSMOUNTAIN DIVERSIONS	1759.
MUNICIPAL+INDUSTRIAL CONSUMPTION	100.
MISC. USE OR CORRECTIONS	800.
TOTAL DEPLETION	99601.

SUMMARY FOR WATER DISTRICT 54 IN ACRE-FT

IRRIGATION DEPLETION	11499.
RESERVOIR EVAPORATION	228.
CHANGE IN RESERVOIR STORAGE	-123.
TRANSMOUNTAIN DIVERSIONS	0.
MUNICIPAL+INDUSTRIAL CONSUMPTION	0.
MISC. USE OR CORRECTIONS	100.
TOTAL DEPLETION	11704.

SUMMARY FOR WATER DISTRICT 55 IN ACRE-FT

IRRIGATION DEPLETION	1640.
RESERVOIR EVAPORATION	0.
CHANGE IN RESERVOIR STORAGE	0.
TRANSMOUNTAIN DIVERSIONS	0.
MUNICIPAL+INDUSTRIAL CONSUMPTION	0.
MISC. USE OR CORRECTIONS	100.
TOTAL DEPLETION	1740.

SUMMARY FOR WATER DISTRICT 56 IN ACRE-FT

IRRIGATION DEPLETION	1656.
RESERVOIR EVAPORATION	1207.
CHANGE IN RESERVOIR STORAGE	-20.
TRANSMOUNTAIN DIVERSIONS	0.
MUNICIPAL+INDUSTRIAL CONSUMPTION	0.
MISC. USE OR CORRECTIONS	100.
TOTAL DEPLETION	2944.

SUMMARY FOR WATER DISTRICT 57 IN ACRE-FT

IRRIGATION DEPLETION	16084.
RESERVOIR EVAPORATION	751.
CHANGE IN RESERVOIR STORAGE	-388.
TRANSMOUNTAIN DIVERSIONS	1594.
MUNICIPAL+INDUSTRIAL CONSUMPTION	5800.
MISC. USE OR CORRECTIONS	150.
TOTAL DEPLETION	23992.

SUMMARY FOR WATER DISTRICT 58 IN ACRE-FT

IRRIGATION DEPLETION	38971.
RESERVOIR EVAPORATION	3492.
CHANGE IN RESERVOIR STORAGE	-7806.
TRANSMOUNTAIN DIVERSIONS	341.
MUNICIPAL+INDUSTRIAL CONSUMPTION	500.
MISC. USE OR CORRECTIONS	300.
TOTAL DEPLETION	35798.

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DIVISION 6 BREAKDOWN BY RIVER BASIN

	YAMPA	LITTLE SNAKE	GREEN	WHITE	N PLATTE	COLORADO
IRRIG DPLTN	94094.	13139.	1656.	41224.	90054.	150115.
RES EVAP	6810.	228.	1207.	1170.	8001.	9417.
CHG STORAGE	-8948.	-123.	-20.	-1660.	-1113.	-10751.
MUN-IND	7100.	0.	0.	6223.	100.	13323.
TRANS-MTN	2395.	0.	0.	0.	1759.	2395.
MISC	16950.	200.	100.	500.	800.	17750.
OUTFLOW	826298.	382362.	7000.	457740.	196600.	1673400.
BASIN YIELD	944699.	395806.	9944.	505198.	296202.	1855649.
PCT CONS	0.1253	0.0339	0.2961	0.0939	0.3362	0.0982

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DIVISION 6 TOTAL IRRIGATION DEPLETION IN ACRE FT. 240169.

IRRIGATED ACRES 252054.

ACRE FT. PER ACRE 0.952

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E. Ground Water

Each year there is an increase in the need for and the use of ground water for domestic purposes. The Craig area, because of the rapid population increase, has several new subdivisions which are relying entirely on ground water for their domestic supply. Some subdivisions have a central water system with only one well for their supply, however, many others are asking for individual wells for each residence which has created several problems. These problems are not so much as being able to locate suitable water, but the difficulty in being able to find well drillers which will properly construct a well. Several instances have occurred where proper constructed wells would of insured an adequate supply for a residence, but because of improper casing and development the wells were not of the quantity and quality necessary for a domestic supply.

The Twentymile sandstone, a member of the Williams Fork Formation is still the most promising deep aquifer. Artesian flows of 50 gpm to 450 gpm have been found at depths of 500 to 1,800 feet in the Craig area. The majority of the ground water being used in the Division, however, is located above 200 foot depths.

F. Transmountain Diversions (Transbasin)

Structure	Acre Feet
Stillwater Ditch (exported to Division 5)	2,063.0
Sarvis Ditch	0

Structure	Acre Feet
Rich Ditch	2,018.0
Morgan Creek Feeder	460.0
Dome Creek Ditch (exported to Division 5)	296.0
Four Counties Ditch	0
Michigan Ditch (exported to Division 1)	1,680.0
Cameron Pass Ditch (exported to Division 1)	79.0
Total Water Exported from Yampa River to Colorado River Drainage	2,359.0
Total Water Exported from North Platte River to South Platte Drainage	1,759.0

III. Water Supply
G. Reservoir Storage

NAME OF RESERVOIR	SOURCE	AMT. IN STORAGE 11-1-75	FILL DURING SEASON	RELEASE + EVAPORATION	AMT. IN STORAGE 10-31-76	TOTAL CHANGE IN STORAGE
District NO. 43						
Baxter Reservoir	Evacuation Creek	65.0	0	5.0	60.0	-5.0
Beaver Lake Reservoir	Vaughan Creek	7.45	0	0	7.45	0
Big Beaver Creek Reservoir	Big Beaver Creek	7,657.86	0	1,455.86	6,202.0	-1,455.86
Big Lick Reservoir	Big Beaver Creek	503.0	0	0	503.0	0
Black Gulch Reservoir	Black Gulch	41.0	15.75	16.0	40.75	-.25
Cabin Lake Reservoir	Vaughan Creek	16.06	0	0	16.06	0
Gregor Reservoir	Vaughan Creek	47.0	0	0	47.0	0
Johnny Johnson Reservoir	White River	1,036.0	125.0	311.0	850.0	-186.0
Keystone Reservoir No. 3	Price Creek	20.0	11.18	10.18	21.0	+1.0
Lady Lake Reservoir	Vaughan Creek	4.41	0	0	4.41	0
Larson Reservoir	Nineteen Mile Creek	62.0	0	.1	61.9	-.1
Lunney Reservoir	Nine Mile Draw	0	82.12	61.12	21.0	+21.0
McHatton Reservoir	Coal Creek	44.0	20.2	0	64.2	+20.2
Procter Reservoir	Curtis Creek	0	6.66	0	6.66	+6.66
Seventh Lake Reservoir	Vaughan Creek	2.12	0	0	2.12	0
Shadow Lake Reservoir	Vaughan Creek	2.60	0	0	2.60	0
Stump Lake Reservoir	Vaughan Creek	38.4	0	28.17	10.23	-28.17
West Miller Reservoir	West Miller Creek	77.8	0	39.0	38.8	-39.0
West Stewart Reservoir	West Stewart Creek	4.0	15.3	9.3	10.0	+6.0
Wilson Reservoir	East Flag Creek	0	52.0	52.0	0	0
TOTALS		9,628.7	328.21	1,987.73	7,969.18	-1,659.52

(All figures in acre feet)

NAME OF RESERVOIR	SOURCE	AMT. IN STORAGE 11-1-75	FILL DURING SEASON	RELEASE + EVAPORATION	AMT. IN STORAGE 10-31-75	TOTAL CHANGE IN STORAGE
District No. 44						
Anderson Reservoir	Cottonwood Creek	0	16.0	16.0	0	0
B and B Reservoir	Flume Gulch	21.7	0	0	21.7	0
Bennett Reservoir	Spring Creek	7.11	0	0	7.11	0
Big Bottom Reservoir	Unnamed Tributary	Est 20.0	0	0	Est 20.0	0
Biskup Reservoir	Biskup Gulch	45.0	72.0	116.8	.2	-44.8
Blake Stock Pond 1	Elk Head Creek	.40	0	0	.40	0
Blake Stock Pond 2	Elk Head Creek	.02	0	0	.02	0
Bunker Lake Reservoir	Bunker Creek	191.48	0	94.48	97.0	-94.48
Cove Lake Reservoir	Morapos Creek	20.0	54.7	74.7	0	-20.0
Cove Reservoir	Morapos Creek	40.0	81.0	121.0	0	-40.0
Culverwell Reservoir	Sand Spring Gulch	0	117.3	117.3	0	0
D.D. & E. Reservoir	Hullett Draw	900.0	608.0	1,100.0	408.0	-492.0
Dresher Reservoir	Long Gulch	120.0	120.0	239.8	.20	-119.8
Dunkley Dubeau Reservoir	Willow Creek	62.0	50.9	30.0	82.9	+20.9
Elgin Reservoir	Bell Rock Gulch	0	132.99	68.99	64.0	+64.0
Elgin Reservoir No. 2	McLernon Draw	0	52.68	52.68	0	0
Elk Head Reservoir	Elk Head Creek	13,574.0	0	0	13,574.0	0
Flat Top (Gill) Reservoir	Unnamed Tributary	25.2	0	0	25.2	0
Fredrickson No. 1 Res.	Tributary to Elk Head	5.23	0	0	5.23	0
Fredrickson No. 2 Res.	Tributary to Elk Head	2.64	0	0	2.64	0
Fredrickson No. 3 Res.	Tributary to Elk Head	4.5	0	0	4.5	0
Fredrickson No. 4 Res.	Tributary to Elk Head	2.81	0	0	2.81	0
Freeman Reservoir	Little Cottonwood Cr.	137.09	0	0	137.09	0
Gerber Reservoir	Sand Spring Gulch	2.5	0	0	2.5	0
Hudack Reservoir	Trib. Fortification Cr.	4.5	0	0	4.5	0
Konopik Reservoir	Clear Creek	13.0	.3	0	13.3	+.3
Leftwich Reservoir	Boone Gulch	35.6	0	0	35.6	0
Malburg Pond	Brown's Gulch	2.2	0	0	2.2	0
Morin Reservoir	Dayton Creek	7.13	0	0	7.13	0
Morton Reservoir	Deacon Gulch	9.2	0	0	9.2	0
Pitney Reservoir	Corral Gulch	11.23	0	0	11.23	0
Poose Creek Reservoir	Poose Creek	277.09	0	0	277.09	0
Ralph White Reservoir	Fortification Creek	924.61	0	0	924.61	0
Roby Reservoir	Morapos Creek	0	26.05	26.05	0	0
Sagebrush Reservoir No. 1	Butler Creek	4.5	0	0	4.5	0
Sagebrush Reservoir No. 2	Butler Creek	3.0	0	0	3.0	0

NAME OF RESERVOIR	SOURCE	AMT. IN STORAGE 11-1-75	FILL DURING SEASON	RELEASE + EVAPORATION	AMT. IN STORAGE 10-31-76	TOTAL CHANGE IN STORAGE
District No. 44						
Sellers Crowell Reservoir	Willow Creek	2.6	98.0	25.6	75.0	+72.4
Shafer Reservoir	Willow Creek	81.4	0	0	81.4	0
Velanzas Reservoir No. 1	Jeffway Gulch	7.6	0	0	7.6	0
Velanzas Reservoir No. 2	Jeffway Gulch	0	3.8	0	3.8	+3.8
Waddle Creek Reservoir	Waddle Creek	21.0	18.18	32.18	7.0	-14.0
Wilson Reservoir	Good Springs Creek	68.4	0	0	68.4	0
Wyman Reservoir	Beaver Creek	95.0	0	90.0	5.0	-90.0
TOTALS (All figures in acre feet)		16,749.74	1,451.9	2,205.58	15,996.06	-753.68
District No. 47						
Addison Reservoir	Buffalo Creek	20.7	61.0	66.7	15.0	-5.7
Aqua Fria Reservoir	Beaver Creek	550.0	0	550.0	0	-550.0
Bennett Reservoir	T. Beaver Creek	0	139.0	139.0	0	0
Big Creek Lake	Big Creek	1,012.0	93.0	2.0	1,103.0	91.0
Boettcher Lake	Lake Creek	757.0	183.0	183.0	757.0	0
Brands Reservoir	T. No. Fk. North Platte	40.4	7.6	20.6	27.4	-13.0
Buffalo Reservoir	Buffalo Creek	295.0	97.0	97.0	295.0	0
Burns Reservoir	Burns Draw	39.3	1.17	39.3	1.17	-38.13
Butte (South & East) Res.	Roaring Fork	627.0	222.0	221.5	627.5	+.5
Carlstrom (Upper Cowdrey) Res.	Michigan River	448.4	58.5	58.5	448.4	0
Case No. 1 Reservoir	Illinois River	117.0	0	117.0	0	-117.0
Case No. 2 Reservoir	Illinois River	56.0	65.0	42.0	79.0	+23.0
Case No. 3 Reservoir	Illinois River	4.5	52.9	7.4	50.0	+45.5
Clayton Reservoir	Buffalo Creek	180.0	33.0	213.0	0	-180.0
Cowdrey (Lower) Reservoir	Michigan River	25.1	163.9	0	189.0	+163.9
Coyte Reservoir	Arapahoe Creek	37.0	5.0	4.0	38.0	+1.0
Fisher Lake and Pump	Seepage T. Michigan River	28.9	29.1	16.8	41.2	+12.3
Fuller Reservoir	Cow Creek	7.3	.7	8.0	0	-7.3
Gamber Reservoir	Little Grizzly River	415.5	1.0	1.0	415.5	0
Ginger Quill Reservoir	Three Mile Creek	38.2	0	0	38.2	0
Hap Reservoir	Buffalo Creek	0	41.0	41.0	0	0
Hecla Reservoir	Arapaho Creek	194.5	123.3	80.6	237.2	+42.7

NAME OF RESERVOIR	SOURCE	AMT. IN STORAGE 11-1-75	FILL DURING SEASON	RELEASE + EVAPORATION	AMT. IN STORAGE 10-31-76	TOTAL CHANGE IN STORAGE
District No. 47						
House (Upper) Reservoir	Spring Creek	44.8	0	.8	44.0	-.8
Hunter Reservoir	Three Mile Creek	0	12.0	12.0	0	0
Jackson Reservoir	Dry Creek	91.9	26.1	26.0	92.0	+.1
Kettle Reservoir	Newcomb Creek	0	24.0	24.0	0	0
Lake John	Lake Creek	6,550.0	1,993.0	1,018.0	7,525.0	+975.0
Lake Roslyn	Howd Creek	74.0	216.0	50.0	240.0	+166.0
Laune Reservoir	Roaring Fork	2,056.0	1,926.0	1,248.0	2,734.0	+678.0
MacFarlane Reservoir	Illinois River	1,155.0	1,898.0	2,862.0	191.0	-964.0
McGowan Reservoir	Middle Fork Mexican Creek	25.3	24.2	13.7	35.8	+10.5
Mexican Reservoir	Mexican Creek	0	57.0	57.0	0	0
Muddy Pass Reservoir	T. Grizzly Creek	58.0	0	0	58.0	0
Ninegar Reservoir	Ninegar Creek	37.5	0	6.0	31.5	-6.0
North Michigan Reservoir	North Fk. Michigan Creek	1,249.5	0	0	1,249.5	0
Petry Lake	Unnamed T. Little Grizzly	71.9	18.4	18.4	71.9	0
Pole Mountain Reservoir	Mexican Creek	1,436.6	87.4	779.0	745.0	-691.6
Ridings Reservoir	Buffalo Creek	0	46.1	46.1	0	0
Rock Reservoir	Newcomb Creek	0	54.8	54.8	0	0
Seymour Reservoir	Ninegar Creek	448.0	565.6	699.6	314.0	-134.0
Shawver Reservoir	Sutton Creek	0	277.0	277.0	0	0
Slack and Weiss Reservoir	Ninegar Creek	144.0	111.0	118.0	137.0	-7.0
Stambaugh Reservoir	Little Grizzly	139.0	130.0	139.0	130.0	-9.0
South Arapahoe Reservoir	Arapaho Creek	16.0	0	16.0	0	-16.0
Three Mile Reservoir	Three Mile Creek	3.3	74.7	49.0	29.0	+25.7
Two Ledge Reservoir	T. Coyote Creek	61.4	0	.4	61.0	-.4
Van Valkenburg Reservoir	Van Valkenburg Draw	0	53.0	53.0	0	0
Walden Reservoir	Illinois River	3,093.7	651.9	1,259.6	2,486.0	-607.7
West Arapaho Reservoir	T. Big Grizzly	0	125.0	125.0	0	0
TOTALS (All figures in acre feet)		21,649.70	9,748.37	10,860.80	20,537.27	-1,112.43

NAME OF RESERVOIR	SOURCE	AMT. IN STORAGE 11-1-75	FILL DURING SEASON	RELEASE + EVAPORATION	AMT. IN STORAGE 10-31-76	TOTAL CHANGE IN STORAGE
District No. 54						
Elk Lake Reservoir	Willow Creek	215.4	199.4	215.6	199.2	-16.2
Gold Blossom Reservoir	Gold Blossom Creek	0	0	0	0	0
Lake Fork Reservoir	Lake Fork Creek	44.3	0	0	44.3	0
Lower Cogdill Reservoir	Government Corral Creek	173.44	0	0	173.44	0
Martin Cull Reservoir	T. Four Mile Creek	182.0	75.0	182.0	75.0	-107.0
McCargar Dam & Reservoir	Independence Creek	64.2	0	0	64.2	0
Skunk Creek Reservoir	Skunk Creek	15.32	0	0	15.32	0
Slater Creek Lake	T. Slater Creek	44.0	44.4	44.4	44.0	0
Upper Cogdill Reservoir	Government Corral Creek	45.4	0	0	45.4	0
TOTALS (All figures in acre feet)		784.06	318.8	442.0	660.86	-123.2
District No. 56						
Ainge Reservoir	Flynn Spring	.5	4.0	4.5	0	-.5
Bassett No. 1 Reservoir	Bull Canyon Gulch	0	0	0	0	0
Bassett No. 2 Reservoir	Bull Canyon Gulch	30.0	63.32	39.32	54.0	+24.0
Blevins Reservoir	Spring T. Vermillion Creek	1.0	4.5	1.5	4.0	+3.0
Cove Reservoir	Cottonwood Creek	Est25.0	46.1	36.1	35.0	+10.0
Dry Lake Reservoir	Pot Creek	15.0	10.36	19.36	6.0	-9.0
Haunted Spring Reservoir	Haunted Spring Gulch	0	8.83	7.83	1.0	+1.0
Massey Reservoir	Flynn Spring	14.0	5.35	17.35	2.0	-12.0
Offield Reservoir	Pot Creek	100.0	200.0	236.0	64.0	-36.0
TOTALS (All figures in acre feet)		185.5	342.46	361.96	166.0	-19.5
District No. 57						
Apple Reservoir	Dry Creek	0	10.73	10.73	0	0
Ash Ponds to Hayden Station	Yampa River	500.0	513.0	132.0	881.0	+381.0
Basin Reservoir	Buchanan Gulches	74.5	133.5	133.5	74.5	0

NAME OF RESERVOIR	SOURCE	AMT. IN STORAGE 11-1-75	FILL DURING SEASON	RELEASE + EVAPORATION	AMT. IN STORAGE 10-31-76	TOTAL CHANGE IN STORAGE
District No. 57						
Brock Reservoir	Trib. to Yampa River	4.0	2.8	5.8	1.0	-3.0
Cozzens Walrod Reservoir	Hutchinson Gulch	0	84.4	54.12	30.28	+30.28
East Signs Reservoir	Hooker Draw	2.0	0	0	2.0	0
Eckman Park Reservoir No. 1	Foidel Creek	116.8	0	0	116.8	0
Eckman Park Reservoir No. 2	Foidel Creek	12.2	0	0	12.2	0
Eckman Park Reservoir No. 3	Foidel Creek	24.0	0	24.0	0	-24.0
F. Schaffermeyer Res. No. 3	Fiske Creek	11.58	0	0	11.58	0
Greasewood Flats Reservoir	Dill Gulch	0	80.0	80.0	0	0
James Marion Yoast Res.	Yoast Creek	0	147.0	147.0	0	0
John C. Temple Res. No. 1	Temple Gulch	363.0	190.0	516.0	37.0	-326.0
Morgan Creek No. 1 Reservoir	Morgan Creek	179.0	118.0	213.4	83.6	-95.4
Nofstger Reservoir	Grassy Creek	300.0	155.6	155.6	300.0	0
Nofstger-Zeigler Reservoir	Grassy Creek	0	0	0	0	0
Sage Creek Reservoir	Sage Creek	6.4	0	6.4	0	-6.4
Scotchmans Gulch Reservoir #1	Scotchmans Gulch	Est 13.0	0	5.0	8.0	-5.0
Seaton Reservoir	Middle Fish Creek	0	20.8	20.8	0	0
Sheriff Reservoir	Trout Creek	824.0	162.0	505.0	481.0	-343.0
West Signs Reservoir	Miller Draw	1.0	0	0	1.0	0
Whetstone Reservoir No. 1	Whetstone Creek	0	23.7	23.7	0	0
Whetstone Reservoir No. 2	Whetstone Creek	0	1.0	1.0	0	0
Yoast No. 1, No. 2 Res.	Yoast Creek	2.08	11.66	7.74	6.0	+3.92
TOTALS (All figures in acre feet)		2,433.56	1,654.19	2,041.79	2,045.96	-387.60
District No. 58						
Allen Basin Reservoir	Middle Hunt Creek	1,001.0	1,020.0	1,410.0	611.0	-390.0
Alma Baer Reservoir	Fish Creek	2.6	0	0	2.6	0
Bar Bee Lake	Beaver Creek	80.0	0	0	80.0	0
Bull Park No. 2 Reservoir	West Branch Watson Creek	0	30.0	30.0	0	0
Burnt Mesa Reservoir	South Hunt Creek	60.0	3.0	60.0	3.0	-57.0
Chapman Reservoir	Little Oak Creek	80.0	166.0	196.0	50.0	-30.0
Crowner Reservoir	Beaver Creek	0	58.0	58.0	0	0

NAME OF RESERVOIR	SOURCE	AMT. IN STORAGE 11-1-75	FILL DURING SEASON	RELEASE + EVAPORATION	AMT. IN STORAGE 10-31-76	TOTAL CHANGE IN STORAGE
District No. 58						
Fish Creek Reservoir	Fish Creek	1,407.0	1,068.0	838.0	1,637.0	+230.0
Fish Creek Lake No. 2	Wheeler Creek	35.0	0	0	35.0	0
French Reservoir	Jack Creek	4.0	0	0	4.0	0
Gardner Park Reservoir	Gardner Creek	1,138.0	17.0	427.0	728.0	-410.0
G.R. Brenneman Reservoir	Cow Creek	2.0	.43	0	2.43	+.43
Hahns Peak Reservoir	Willow Creek	600.0	0	0	600.0	0
Heart Lake	Watson Creek	0	283.0	278.0	5.0	+5.0
Kern Reservoir	Grouse Creek	.38	0	0	.38	0
LaForce No. 1 Reservoir	Jack Creek	2.0	0	0	2.0	0
LaForce No. 2 Reservoir	Jack Creek	6.0	0	0	6.0	0
LaForce No. 3 Reservoir	Jack Creek	6.0	0	0	6.0	0
Lake Creek Reservoir	Wheeler Creek	261.0	0	0	261.0	0
Lake Windemere	Farnsworth Creek	77.0	60.0	60.0	77.0	0
Lee Pond No. 1	Antelope Creek	.44	0	0	.44	0
Lee Pond No. 2	Antelope Creek	1.48	0	0	1.48	0
Lee Pond No. 3	Antelope Creek	.65	0	0	.65	0
Lee Reservoir	Chimney Creek	3.0	0	0	3.0	0
Lester Creek Reservoir	Lester Creek	5,657.0	269.0	3,184.0	2,742.0	-2,915.0
Long Lake	Fish Creek	100.0	396.0	100.0	396.0	+296.0
Martin Reservoir	Yellow Jacket Creek	10.0	75.0	75.0	10.0	0
May Reservoir	Salt Creek	0	6.0	0	6.0	+6.0
McChivvis Reservoir	Watson Creek	40.0	0	10.0	30.0	-10.0
Moore Park Reservoir	Elgin Creek	20.85	0	20.85	0	-20.85
Oak Creek Reservoir	Oak Creek	1.0	0	0	1.0	0
Overman Reservoir	French Creek	Est100.0	0	0	Est100.0	0
Rams Horn Reservoir	Dome Creek	112.0	0.4	112.4	0	-112.0
Reed Reservoir	Chimney Rock Creek	8.21	0	0	8.21	0
Roland Reid Reservoir No. 1	Ft. Willy Gulch	46.0	0	1.0	45.0	-1.0
Sandelin Reservoir No. 1	Big Creek	2.5	0	0	2.5	0
Sandelin Reservoir No. 2	Big Creek	7.0	0	0	7.0	0
Sandelin Reservoir No. 3	Big Creek	6.8	0	0	6.8	0
Simon Reservoir	Middle Hunt Creek	578.0	417.0	657.0	338.0	-240.0
Stillwater Reservoir No. 1	Yampa River	3,711.0	1,660.0	5,371.0	0	-3,711.0
Storm Mountain Reservoir	Burgess Creek	0	1.74	0	1.74	+1.74
Stukey Distribution Reservoir	Spring Creek	4.6	0	0	4.6	0

NAME OF RESERVOIR	SOURCE	AMT. IN STORAGE 11-1-75	FILL DURING SEASON	RELEASE + EVAPORATION	AMT. IN STORAGE 10-31-76	TOTAL CHANGE IN STORAGE
District No. 58						
Summer Reservoir	Young Creek	0	12.0	11.75	.25	+.25
Tillquist Reservoir	Morrison Creek	5.0	0	0	5.0	0
Trull Creek Reservoir	Trull Creek	0	149.0	114.0	35.0	+35.0
Upper Stillwater Reservoir	Roaring Fork	620.0	0	0	620.0	0
Upper Willow Cr. Reservoir	Willow Creek	23,604.0	840.0	1,284.0	23,160.0	-444.0
Wheeler Reservoir	Wheeler Creek	390.0	0	0	390.0	0
Whitney Nelson Reservoir	Whipple Creek	390.0	0	40.0	350.0	-40.0
Willey Reservoir	Cow Creek	0	2.0	1.0	1.0	+1.0
Younger Reservoir	Morrison Creek	Est 15.0	0	0	Est 15.0	0
TOTALS		40,196.51	6,533.57	14,339.0	32,391.08	-7,805.43

(All figures in acre feet)

IV. AGRICULTURE

Hay and grain crop production was good this past season, although the growing season was dryer than normal. But, what moisture was received occurred at the best possible time during the growing season. Even with the good production, farm and ranch families are experiencing poor economic conditions since prices for grains and beef cattle are low. Sheep producers are having better market conditions and are operating with greater profits but not as much as last year.

The White River drainage has almost twice as much irrigated land as dry crop land. Most of the irrigated land is in hay production for livestock feed. This land is probably about equally divided between wild meadow hay and alfalfa. The average production on wild hay is around two to three tons per acre with alfalfa being slightly higher. Alfalfa usually produces two cuttings of hay per season. The dry crop land is almost exclusively planted in grains, wheat, oats and barley. The crop yields vary greatly in proportion to the climatic conditions. The average for wheat is around 26 bushels per acre with oats and barley slightly higher. The bulk of the dry crop land is fallowed in alternating years, which cuts production to something over 50 percent of the total acreage annually.

The Yampa drainage has about 40 percent more dry crop land than irrigated. The dry land crops in the Yampa drainage are almost identical to the White River drainage, with the exception that a small portion of it is in the production of hay. This dry land is mostly

alfalfa and generally produces only one cutting. The wheat yield for the Yampa drainage is around 30 bushels per acre. The hay in the Yampa drainage is predominately wild hay with a yield of two to three tons per acre.

The North Platte drainage produces only wild hay with an average yield of around one ton per acre. The elevation of North Park is high and the growing season is short.

V. COMPACTS

Preliminary gaging station records show 826,300 acre feet at the Maybell gage on the Yampa River for the past water year. This is in excess of the 500,000 acre feet stipulated in the Upper Colorado River Compact.

All stipulations of the Nebraska vs. Wyoming Supreme Court decision were met with 7,755 acre feet for irrigation purposes being stored, 120,199 acres irrigated, and 1,759 acre feet of transmountain diversions during the water year. Representatives from Wyoming's State Engineer's Office were given a tour of the North Platte Drainage by the Division staff. It was decided that Colorado should participate in the annual Nebraska-Wyoming North Platte Basin meeting, and that a tour of the North Platte Drainage in Wyoming be conducted next year by Wyoming.

The operation of Pot Creek has been difficult this past season since there is no formal agreement between Utah and Colorado. Division staff have computed that Colorado water users are entitled to an

additional 330 acre feet from Utah. However, Utah feels that it has made the necessary deliveries and that they have, in fact, over delivered. They base this on releases from their reservoirs, and not what has actually been measured at the State Line gaging station.

VI. DAMS

A. Sage Creek Reservoir has finally been completely repaired since the mud slide plugged the outlet in the spring of 1974. A new section of outlet pipe was installed along with improvements being made to the headgate and trash rack. The reservoir will be allowed to store next season.

Construction has started on Lake Catamount which is South of Steamboat Springs on the Yampa River. The right abutment has been fully excavated and the cut-off trench filled. The outlet pipe is presently under construction. The builders of the dam have been stopped from working in the stream channel once by the Army Corp of Engineers who later reversed themselves and more recently by the Environmental Protection Agency. The EPA is using provisions of Public Law 92-500 as its grounds for jurisdiction. To date, a Federal District Court has upheld the EPA cease order.

Lester Creek Reservoir has had drains installed on the right abutment, the headgate repaired, the channel below the Reservoir deepened, the installation of piezometers to monitor water levels in the dams, and slope stability pins have been placed on the embankment for

detection of any slippage that may occur. The reservoir is still being held 10 feet below the spillway since the controversy of adequate access for emergency vehicles has not, as yet, been resolved.

B. The construction of Stock Dams has been considerably less than previous years with only four dams being approved and constructed this year. Several others were denied by the Division Staff because they did not meet the criteria under the Stock Dam Law.

VII. WATER RIGHTS

A. To keep up-to-date with the new decrees being issued, the staff codes the decrees for the computer tabulation, makes decree cards for the Division file, tabulation decrees for inclusion on the Water Commissioner's decree books, index them by location, compiles a decree book and plots all new water rights on topography sheets. Once a year new decrees are keypunched and prepared for the 1978 tabulation. This continuous up-dating consumes a considerable amount of time. The Water Commissioners are given the new rights annually and are expected to have them included in the upcoming water diversion records.

Division 6 Water Judge, Don Lorenz, recently issued a ruling to the Water Referee that all cases which have been objected to will have a referee hearing and ruling made by the referee before any formal hearing will be heard by the Court. In the past, those cases which were objected to were not ruled on by the referee. He automatically referred them back to the Court for hearing. It is hoped that many disputed cases can be settled by the water referee rather than going to a full court hearing.

B. Consultations with the water referees are made upon their request and are up-to-date. All of the water cases are field checked by a member of the division staff with the water referee unless both parties have previous knowledge of the case.

	Applications	Rulings	Decrees
Underground	38	32	28
Change of Water Right	12	16	17
Plan of Augmentation	1	0	2
Water Right	72	71	60
Diligence	2	1	1
Water Storage	16	12	13
Applications received in Water Court	145		
Number of Referee Consultations	132		

VIII. ORGANIZATIONS

A. Colorado River Water Conservation District - Glenwood Springs, CO, Mr. Roland C. Fischer, Secretary-Engineer

Upper Yampa Water Conservancy District - Steamboat Springs, CO
John Fetcher, Secretary; Loy Ardrey, President

Yellow Jacket Water Conservancy District - Meeker, CO
Frank Cooley, Attorney

Pot Hook Conservancy District - Baggs, WY
Darwin Dunn, President

Lower Yampa Conservancy District - Craig, CO
Tony Angelo, Chairman

Great Northern Conservancy District - Craig, CO
Tony Angelo, Chairman

Northwest Colorado Water Council - Craig, CO
Tony Angelo, Chairman

Jackson County Water Conservancy District - Walden, CO
Lloyd Hampton, Secretary

B. Bear River Reservoir Company - Yampa, CO

Stillwater Ditch Company - Yampa, CO

Maybell Irrigation District - Maybell, CO

Miller Creek Ditch Company - Meeker, CO

Woodchuck Ditch Company - Steamboat Springs, CO

Mt. Werner Water and Sanitation District - Steamboat Springs, CO

Morrison Creek Water and Sanitation District - Oak Creek, CO

Steamboat Lake Water District - Clark, CO

Riverside Water and Sanitation District - Steamboat Springs, CO

Steamboat II Water and Sanitation District - Steamboat Springs, CO

Tree Haus Water and Sanitation District- Steamboat Springs, CO

IX. WATER COMMISSIONER'S SUMMARY

Water District No. 43

Direct Flow Diversions to Irrigation	294,394	A.F.
Direct Flow Diversions to Transbasin	0	A.F.
Direct Flow Diversions to Municipal & Domestic	1,687	A.F.
Direct Flow Diversions to Industrial	5,810	A.F.
Direct Flow Diversions to Other Uses	24,243	A.F.
TOTAL DIVERSIONS	326,134	A.F.

Reservoir Storage (11-1-75)	9,628	A.F.
Reservoir Storage (10-31-76)	7,969	A.F.
Net Change in Storage	-1,659	A.F.
Fill During Season	328	A.F.
Release + Evaporation During Season	1,988	A.F.

Direct Diversions to Irrigation	294,394	A.F.
Diversions from Storage to Irrigation	110	A.F.
TOTAL DIVERSIONS TO IRRIGATION	294,504	A.F.
Total Acres Irrigated	30,505	ACRES
Average Demand for Irrigation	9.6	A.F./ACRE

Number of Active Ditches Observed	382
Number of Active Reservoirs Observed	43
Number of Active Springs Observed	29
Number of Active Wells Observed	3
Number of Inactive Structures Observed	95
TOTAL STRUCTURES OSBSERVED	552
Total Number of Structures Regulated	50
Total Number of Field Observations Made	6,600

Water District No. 44

Direct Flow Diversions to Irrigation	154,020	A.F.
Direct Flow Diversions to Transbasin	460	A.F.
Direct Flow Diversions to Municipal & Domestic	2,039	A.F.
Direct Flow Diversions to Industrial	0	A.F.
Direct Flow Diversions to Other Uses	2,572	A.F.
TOTAL DIVERSIONS	159,091	A.F.

Reservoir Storage (11-1-75)	16,750	A.F.
Reservoir Storage (10-31-76)	15,996	A.F.
Net Change in Storage	-754	A.F.
Fill During Season	1,452	A.F.
Release + Evaporation During Season	2,206	A.F.

Direct Diversions to Irrigation	154,020	A.F.
Diversions from Storage to Irrigation	1,905	A.F.
TOTAL DIVERSIONS TO IRRIGATION	155,925	A.F.
Total Acres Irrigated	30,832	ACRES
Average Demand for Irrigation	5.1	A.F./ACRE

Number of Active Ditches Observed	217
Number of Active Reservoirs Observed	39
Number of Active Springs Observed	105
Number of Active Wells Observed	19
Number of Inactive Structures Observed	88
TOTAL STRUCTURES OBSERVED	468

Total Number of Structures Regulated	19
Total Number of Field Observations Made	2,224

Water District No. 47

Direct Flow Diversions to Irrigation	556,518	A.F.
Direct Flow Diversions to Transbasin	1,759	A.F.
Direct Flow Diversions to Municipal & Domestic	417	A.F.
Direct Flow Diversions to Industrial	0	A.F.
Direct Flow Diversions to Other Uses	10,053	A.F.
TOTAL DIVERSIONS	568,747	A.F.

Reservoir Storage (11-1-75)	21,650	A.F.
Reservoir Storage (10-31-76)	20,537	A.F.
Net Change in Storage	-1,113	A.F.
Fill During Season	9,748	A.F.
Release + Evaporation During Season	10,861	A.F.

Direct Diversions to Irrigation	556,518	A.F.
Diversions from Storage to Irrigation	7,755	A.F.
TOTAL DIVERSIONS TO IRRIGATION	564,273	A.F.
Total Acres Irrigated	120,199	ACRES
Average Demand for Irrigation	4.7	A.F./ACRE

Number of Active Ditches Observed	440
Number of Active Reservoirs Observed	53
Number of Active Springs Observed	10
Number of Active Wells Observed	2
Number of Inactive Structures Observed	43
TOTAL STRUCTURES OBSERVED	548

Total Number of Structures Regulated	20
Total Number of Field Observations Made	722

Water District No. 54

Direct Flow Diversions to Irrigation	49,972	A.F.
Direct Flow Diversions to Transbasin	0	A.F.
Direct Flow Diversions to Municipal & Domestic	15	A.F.
Direct Flow Diversions to Industrial	0	A.F.
Direct Flow Diversions to Other Uses	14,010	A.F.
TOTAL DIVERSIONS	63,997	A.F.

Reservoir Storage (11-1-75)	784	A.F.
Reservoir Storage (10-31-76)	661	A.F.
Net Change in Storage	-123	A.F.
Fill During Season	319	A.F.
Release + Evaporation During Season	442	A.F.

Direct Diversions to Irrigation	49,972	A.F.
Diversions from Storage to Irrigation	442	A.F.
TOTAL DIVERSIONS TO IRRIGATION	50,414	A.F.
Total Acres Irrigated	9,430	ACRES
Average Demand for Irrigation	5.3	A.F./ACRE

Number of Active Ditches Observed	62
Number of Active Reservoirs Observed	9
Number of Active Springs Observed	3
Number of Active Wells Observed	0
Number of Inactive Structures Observed	32
TOTAL STRUCTURES OBSERVED	105
Total Number of Structures Regulated	0
Total Number of Field Observations Made	258

Water District No. 55

Direct Flow Diversions to Irrigation	7,117	A.F.
Direct Flow Diversions to Transbasin	0	A.F.
Direct Flow Diversions to Municipal & Domestic	1	A.F.
Direct Flow Diversions to Industrial	0	A.F.
Direct Flow Diversions to Other Uses	56	A.F.
TOTAL DIVERSIONS	7,174	A.F.

Reservoir Storage (11-1-75)	0	A.F.
Reservoir Storage (10-31-76)	0	A.F.
Net Change in Storage	0	A.F.
Fill During Season	0	A.F.
Release + Evaporation During Season	0	A.F.

Direct Diversions to Irrigation	7,117	A.F.
Diversions from Storage to Irrigation	0	A.F.
TOTAL DIVERSIONS TO IRRIGATION	7,117	A.F.
Total Acres Irrigated	1,267	ACRES
Average Demand for Irrigation	5.6	A.F./ACRE

Number of Active Ditches Observed	12
Number of Active Reservoirs Observed	0
Number of Active Springs Observed	20
Number of Active Wells Observed	5
Number of Inactive Structures Observed	6
TOTAL STRUCTURES OBSERVED	43
Total Number of Structures Regulated	0
Total Number of Field Observations Made	68

X. DIVISION ENGINEER'S SUMMARY

TABLE A

DIVISION SUMMARY - DIVISION NO. 6

1976 -- Direct Flow Diversions

Water District	Total Ditches Reported Active	Inactive	Total Diversions for Irrigation AC. FT.	No. of Acres Irrigated	AC. FT. Per Acre	Industrial Use AC. FT.	Municipal & Domestic AC. FT.	Recreational & Other Use AC. FT.	Transbasin/Transmtn. Diversions AC. FT.	Total Diversions AC. FT.	No. of Structures Reported on in Dist.	Delivered to Compact Commitment AC. FT.
43	382	95	294,504	30,505	9.6	5,810	1,687	24,243	0	326,134	552	---
44	217	88	155,925	30,832	5.1	0	2,039	2,572	460	159,091	468	---
47	440	43	564,273	120,199	4.7	0	417	10,053	1,759	568,747	548	---
54	62	32	50,414	9,430	5.3	0	15	14,010	0	63,997	105	---
55	12	6	7,117	1,267	5.6	0	1	56	0	7,174	43	---
56	37	33	14,788	2,315	6.4	0	270	4,145	0	18,922	121	---
57	91	86	66,611	14,733	4.5	4,866	1,451	1,828	2,018	76,774	277	---
58	351	151	138,681	43,807	3.2	0	2,564	4,283	2,359	137,082	714	---
	1592	534	1,292,313	253,088		10676	8444	61190		1,357,921	2828	

X. DIVISION ENGINEER'S SUMMARY

TABLE B

DIVISION SUMMARY - DIVISION NO. 6

1976 - Storage Report - Acre Feet

Water Dist.	Amount in Storage Acre Feet 11-1-75	Amount in Storage Acre Feet 10-31-76	Actual Amt. Diverted to Storage During Season	Delivered from Storage to Irrigation	Storage for Industrial Use	Storage for Municipal Use	Storage for Recreation Use	Storage for Projects
43	9,628	7,969	328	110	---	---	7,888	---
44	16,750	15,996	1,452	1,905	8,310	---	6,628	---
47	21,650	20,537	9,748	7,755	---	---	8,832	---
54	784	661	319	442	---	---	218	---
55	---	---	---	---	---	---	---	---
56	186	166	342	279	---	---	---	---
57	2,434	1,654	1,654	1,144	881	---	---	---
58	40,197	32,391	6,534	10,805	5,000	2,034	22,812	---
				22440	14,191		46,378	

X. DIVISION ENGINEER'S SUMMARY

TABLE C

STRUCTURES REPORTED AND OBSERVATIONS MADE

Water Dist.	Spgs. & Wells Reported	Reservoirs Reported	Active Ditches	Inactive Ditches	Total Structures Reported	Total Daily Observations	Total Structures Regulated
43	32	43	382	95	552	6,600	50
44	124	39	217	88	468	2,224	19
47	12	53	440	43	548	722	20
54	3	9	62	32	105	258	0
55	25	0	12	6	43	68	0
[illegible]	48	8	37	33	121	652	0
57	83	23	91	86	277	821	20
58	161	51	351	151	714	3,500	60
	488	226	1196	534	2878	14845	149

It is hoped that not to far in the future computer terminals can be placed in Division Offices. This would allow the vast amounts of information stored in the data bank to be used on a local level so all the taxpayers involved could benefit from the Data Bank.

Several commissioners in the Division are driving over 12,000 miles per year. With the State mileage compensation being what it is these commissioners are subsidizing the State. It is hoped that these people could be furnished State vehicles in the near future for both their sake and that of the taxpayer.