

RICHARD D. LAMM
Governor



JERIS A. DANIELSON
State Engineer

DIVISION OF WATER RESOURCES
WATER DIVISION I

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January 16, 1984

Dr. Jeris A. Danielson, State Engineer
Division of Water Resources
Room 818 - Centennial Building
1313 Sherman Street
Denver, Colorado 80203

Dear Dr. Danielson:

Please find submitted herewith the Annual Report for
Irrigation Division No. 1 for the 1983 water year.

The encouragement, guidance, and assistance that we have
received from you and your staff as well as the out-
standing efforts of my own staff have been greatly ap-
preciated.

Very truly yours,

James R. Clark, P.E.
Division Engineer

JRC:ct

ANNUAL REPORT
DIVISION NO. I
1983 IRRIGATION YEAR
NOV. 1, 1982 - OCT. 31, 1983

BY

JAMES R. CLARK, DIVISION ENGINEER
EDWARD W. BLANK, ASSISTANT DIVISION ENGINEER

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I. Water Administration

A. Current Water Year

1. Accomplishments for the year

- a) Our goal of determining how much surface water was available was accomplished through the efforts of our hydrographers. The technological aspects of hydrographic activities were extended by use of the COMSAT system.
- b) Began a program of providing more broad-based experience for hydrographers by involving them more in administrative and legal activities.
- c) Tabulation of augmentation plans worked out.
- d) Coding of diversion records for augmentation plans was worked out and implemented.
- e) Streamlined and made more efficient the information gathering system for Referee consultation.
- f) Instituted a system of spending more time with water commissioners resulting in closer supervision and improved administration.
- g) Began administration of Northglenn augmentation plan with the help of a special court approved water commissioner.
- h) Involved water commissioners in closer surveillance of dams.
- i) Survived a long period of high flows on many division streams with the help of COMSAT and the Emergency preparedness program.

2. Involvement in Water User Community

- a) Daily public contact - providing information and answering questions.
- b) Meetings with several entities regarding high water problems. These entities included Corps of Engineers, County Commissioners, Ditch Company

Associations, Ditch Companies, Conservancy Districts and Others.

- c) Chatfield Reservoir release coordination for construction in the South Platte River Channel.
 - d) Cherry Creek Reservoir release coordination for construction in the channel of Cherry Creek.
3. Issues that impact, or may impact, existing policies, statutes and administrative practices - nature and degree of impact.
- a) San Luis Valley Supreme Court case.
 - b) Huston decision on deep wells - further legislation required.
 - c) Cherry Creek Administration.
 - d) Satellite program will take a considerable amount of time, but will expand our capabilities. Close monitoring last year took one man two to three hours each day.
 - e) Monitoring of wells continues to take more time away from surface water administration.
4. Problems, concerns, issues, tasks not addressed this year. Why?
- a) Court decrees beyond headgate.
 - 1) Expanded use.
 - 2) Tabulation.
 - 3) Investigation.
 - 4) Ownership.
 - 5) Reuse of transferrable consumptive use water.
 - b) Items enumerated in (a) above were not addressed in sufficient detail due to shortage of personnel.
5. Effect of workload changes on staff? Cause for the change?

- a) Workload changes have occurred in the hydrographic section due to the loss of part/time employees. These employees were utilized very effectively for many years without a regular part/time position being established. These positions have now been eliminated as a result of the budget crunch. The result has been the loss of several published records which we were not able to complete and station maintenance has not been held up to desired levels.
6. Impact of budget on division operations? Are adjustments possible to more efficiently utilize available funds?
- a) Budget reductions have primarily resulted in not allowing vacant positions to be filled. Although staff positions have not been eliminated, the effect has been the same. The result has been reduced output and the inability to address new issues adequately.

B. Coming Water Year

1. What particular problems and concerns will impact division operations? Why?
 - a) Three water commissioners will retire. Timely examinations and replacement will reduce the problems that vacancies cause.
 - b) One hydrographer will retire this month. His replacement is needed on February 1, 1984. Delay will probably result in the loss of additional record publications.
 - c) Additional complex water right decrees to be administered. This will require the keeping of diversion records beyond the headgate in order to enforce the conditions of the decrees.
2. What particular problems and concerns will not be addressed? Why?
 - a) Items enumerated in A(4) above will continue to be of concern due to staff shortages.
3. Projected work items planned for division staff?

- a) Incorporate the new state operated satellite monitoring system into our operations.
 - b) Increase our efforts to make the coding of our diversion records more uniform and complete.
 - c) If staff increases make it possible, we will work toward the goal of anticipating problems and investigating them rather than reacting to emergencies.
 - d) Continue our newly implemented policy of working more directly with the water commissioners. This involves getting into the field with each commissioner once a month.
 - e) Increase and improve well administration.
 - f) Investigate computer applications that would benefit the Division.
4. Priorities in terms of goals and objectives?
- a) Read each decree and review with appropriate water commissioner.
 - b) Investigate each court application in more detail.
 - c) Pursue more vigorously the goals set forth in FAPAS.

II. Recommendations

A. Policies (new or change)

1. Water administration.

- a) Some guidelines on Cherry Creek would be helpful for possible future administration.
- b) Rules and Regulations from Groundwater Section would help to provide some consistency in administration.
- c) Coding system needed to handle reuse or total consumption water.

d) Use of computers in division office and by water commissioners would improve administrative capabilities.

2. Personnel

a) Training program.

3. Budget

a) More understandable information for use of division offices.

4. Litigation activities

a) What kinds of items should be especially pursued in determining whether a specific case should be litigated.

B. Personnel changes

1. Additional water commissioners needed if we are to fulfill our statutory mission.

C. Budgetary priorities

1. Personnel
2. Operating
3. Capital outlay

D. Administrative practices

1. Seek to develop practices that would be responsive to statutes and decrees.

E. Legislation

1. Attempt to keep informed on progress of bills before the legislature that affect our area of responsibility.
2. Provide timely input to our legislators.

F. Other

III. Statistical Information

Attached are the completed formats for the following listed categories.

- A. Transmountain Diversions
- B. Storage Water
- C. Water Diversions
- D. Court Activities
- E. Office Administration
- F. River Calls
- G. Compact Deliveries
- H. Administration of Plans for Augmentation
 - 1) Due to the "adequate" water supply this year, augmentation plan administration was minimal. The water released for augmentation was 10,864 AF this year.

TRANSMOUNTAIN DIVERSIONS SUMMARY - INFLOWS

		RECIPIENT				SOURCE			
WD	NAME	STREAM	PREVIOUS IYR		IYR OF RECORD		WD	STREAM	
			AF	DAYS	AF	DAYS			
3	Wilson Supply Ditch	Cache La Poudre River	3,020	68	1,080	36	48	Sand & Deadman C	
3	Deadman Ditch	Cache La Poudre River	375	36	264	24	48	Deadman Creek	
3	Bob Creek Ditch	Cache La Poudre River	0	0	0	0	48	Nunn Creek	
3	Columbine Ditch	Cache La Poudre River	0	0	0	0	48	Deadman Creek	
3	Laramie-Poudre Tunnel	Cache La Poudre River	17,680	93	14,470	65	48	Laramie River	
3	Skyline Ditch	Cache La Poudre River	1,690	29	1,060	16	48	Laramie River	
3	Cameron Pass Ditch	Cache La Poudre River	328	49	0	0	47	Michigan River	
3	Michigan Ditch	Cache La Poudre River	2,270	88	358	47	47	Michigan River	
3	Grand River Ditch	Cache La Poudre River	21,120	120	12,670	75	51	Colorado River	
4	Eureka Ditch	Big Thompson River	0	0	0	0	51	Colorado River	
4	Adams Tunnel	Big Thompson River	249,300	346	165,800	346	51	Colorado River	
6	Moffat Tunnel	South Platte River	87,840	362	36,240	318	51	Fraser River	
6	Jones Pass Tunnel	South Platte River	8,680	330	2,730	234	51	Williams Fork	
7	Berthoud Pass Ditch	Clear Creek	424	78	708	132	51	Fraser River	
7	Vidler Tunnel	Clear Creek	619	70	475	53	51	Montezuma Creek	
23-8	Roberts Tunnel	South Platte River	67,910	209	7,940	46	36	Blue River	
23	Boreas Pass Ditch	South Platte River	0	0	0	0	36	Indiana Creek	
23	Hoosier Pass Ditch	Arkansas River	10,660	126	6,180	112	36	Blue River	
23	Aurora Homestake	South Platte River	22,590	288	5,410	61	37	Homestake Creek	

RESERVOIR STORAGE SUMMARIES

WATER DISTRICT 1

RESERVOIR NAME	STREAM SOURCE	PREVIOUS IYR				PREVIOUS IYR				End IYR
		Beg. IYR AF	%	Beg. Irr. Season AF	%	Beg. IYR AF	%	Beg. Irr. Season AF	%	
Bijou #2	South Platte	225	02	0	38	3,500	38	3,010	33	1,950
Empire	South Platte	6,892	13	30,683	81	26,895	71	30,814	82	14,815
Jackson	South Platte	18,527	52	33,567	94	22,252	62	35,195	99	17,634
Riverside	South Platte	22,387	34	56,087	86	36,086	56	58,449	90	16,342
Others (All)		96.5	03	283.1	10	86.8	03	427.7	15	752.4

RESERVOIR STORAGE SUMMARIES

WATER DISTRICT 2

RESERVOIR NAME	STREAM SOURCE	PREVIOUS IYR				PREVIOUS IYR				PREVIOUS IYR			
		Beg. IYR AF	%	Beg. Irr. Season AF	%	Beg. IYR AF	%	Beg. Irr. Season AF	%	Beg. IYR AF	%	Beg. Irr. Season AF	%
Barr	South Platte	888	03	25,943	81	28,843	90	27,509	86	7,737			
Coal Ridge	Little Dry Ck.	187	29	168	26	561	86	426	65	664			
Great Western	Walnut Creek	2,317	71	1,363	42	2,979	92	3,086	95	3,049			
Horse Creek	South Platte	603	02	13,330	45	8,920	30	14,605	50	12,522			
Lord	South Platte	0		0		0		580	34	179			
Lower Latham	South Platte	4,513	73	5,673	91	4,494	72	6,089	98	4,136			
Milton	South Platte	6,432		15,153		16,031		19,580		15,350			
Prospect	South Platte	2,260	36	1,817	29	2,531	40	4,603	73	4,550			
Standley	Woman Creek	26,752	63	26,679	63	42,439	100	37,494	88	41,957			

RESERVOIR STORAGE SUMMARIES

WATER DISTRICT 3

RESERVOIR NAME	STREAM SOURCE	PREVIOUS IYR				PREVIOUS IYR				PREVIOUS IYR				
		Beg. IYR	%	AF	Beg. Irr. Season	Beg. IYR	%	AF	Beg. Irr. Season	Beg. IYR	%	AF	Beg. Irr. Season	End IYR
Fossil Creeks Halligan	Fossil Creek N.Fk.Cache La Poudre	791	12	493	04	1,509	13	5,672	49	1,509	13	5,672	49	0
Indian Creek - aka Mountain Supply	Indian Creek	1,460	77	1,906	100	2,201	34	6,428	100	2,201	34	6,428	100	6,376
North Poudre #2	N.Fk.Cache La Poudre	0		2,470	63	1,183	62	1,129	59	1,183	62	1,129	59	0
North Poudre #3	N.Fk.Cache La Poudre	2,533	74	2,533	74	2,702	69	2,951	75	2,702	69	2,951	75	1,776
North Poudre #4	N.Fk.Cache La Poudre	522	31	846	51	2,206	64	2,473	72	2,206	64	2,473	72	0
North Poudre #5	N.Fk.Cache La Poudre	4,743	56	4,398	52	755	45	755	45	755	45	755	45	755
North Poudre #6	N.Fk.Cache La Poudre	2,128	21	2,002	20	3,840	46	4,534	54	3,840	46	4,534	54	3,495
North Poudre #15	N.Fk.Cache La Poudre	3,522	64	3,014	54	489	05	800	08	489	05	800	08	870
Park Creek	Park Creek	3,636	50	6,619	90	4,304	78	4,822	87	4,304	78	4,822	87	3,813
Cobb Lake	Cache La Poudre	7,950	36	8,000	36	6,852	93	6,441	88	6,852	93	6,441	88	6,747
Seaman aka Milton Sea.	N.Fk.Cache La Poudre	2,231	44	1,612	32	19,950	89	19,450	87	2,529	50	2,943	59	20,510
Claymore	Cache La Poudre	653	64	805	79	2,529	50	2,943	59	2,529	50	2,943	59	3,292
Panhandle	Panhandle Ck.	1,011	43	1,011	43	482	47	775	76	482	47	775	76	354
Seeley	Cache La Poudre	502	32	910	59	1,011	43	1,011	43	1,011	43	1,011	43	1,011
Warren	Cache La Poudre	1,776	84	1,295	62	1,243	81	976	63	1,243	81	976	63	1,144
Wood	Rollard Draw	1,230	40	1,460	47	1,697	81	1,473	70	1,697	81	1,473	70	1,531
Joe Wright aka Cameron	Joe Wright Ck.	6,439	89	6,773	94	1,679	54	2,255	73	1,679	54	2,255	73	1,786
Rawhide	Cache La Poudre	2,890	19	6,696	43	5,593	77	6,005	83	5,593	77	6,005	83	5,310
						11,029	72	12,722	83	11,029	72	12,722	83	15,390

RESERVOIR STORAGE SUMMARIES

WATER DISTRICT 3 (Continued)

RESERVOIR NAME	STREAM SOURCE	PREVIOUS IYR				CURRENT IYR				
		Beg. IYR AF	%	Beg. Irr. Season AF	%	Beg. IYR AF	%	Beg. Irr. Season AF	%	
Horsetooth	Dixon Canyon Ck	136,581	90	121,168	80	84,182	55	126,047	83	111,220
Douglass	Cache La Poudre	7,383	79	7,697	82	7,772	83	8,422	90	4,399
Windsor Res. No. 8	Cache La Poudre	7,546	73	7,189	70	9,464	92	8,608	84	8,070
No. 8 Annex	Cache La Poudre	2,642	72	2,490	68	3,473	95	3,100	85	2,870
Windsor Reservoir	Cache La Poudre	4,607	26	11,123	63	14,150	80	13,735	78	8,852
Chambers	Joe Wright Ck.	1,014	11	2,452	28	3,010	34	5,144	58	2,868
Long Draw aka Grand River	Long Draw Ck.	5,420	49	6,048	55	6,705	61	8,131	74	7,639
Black Hollow	Cache La Poudre	4,376	54	4,459	55	4,459	55	5,397	67	3,445
Curtis	Cache La Poudre	684	54	618	49	790	63	778	62	718
Kluyer	Cache La Poudre	810	71	743	65	819	71	844	74	802
Long Pond aka Water Supply #5,7,6	Cache La Poudre	2,682	66	2,647	66	2,757	68	2,949	73	2,757
Rocky Ridge aka Water Supply No. 1	Cache La Poudre	3,303	74	3,323	75	3,488	79	3,383	76	3,423
Water Supply #3	Long Pond Res.	3,723	77	3,288	68	4,040	84	3,880	80	3,900
Water Supply #4	Long Pond Res.	812	55	866	59	790	54	945	64	655
Terry aka Larimer-Weld	Cache La Poudre	4,847	60	5,279	65	4,805	60	5,235	64	5,191
Worster	Sheep Creek	87	02	599	16	322	08	1,017	27	273
Timnath	Duck Slough	5,284	52	8,300	82	7,306	72	10,070	100	1,735
Windsor Lake	Cache La Poudre	892	61	832	57	849	58	1,113	76	969
Barnes	Barnes Meadows Ck	2,458	67	871	24	2,458	67	615	17	1,846
Others		4,967	54	5,465	60	4,714	52	5,558	61	4,580

RESERVOIR STORAGE SUMMARIES

WATER DISTRICT 4

RESERVOIR NAME	STREAM SOURCE	PREVIOUS IYR				PREVIOUS IYR				PREVIOUS IYR			
		Beg. IYR		Beg. Irr. Season		Beg. IYR		Beg. Irr. Season		Beg. IYR		Beg. Irr. Season	
		AF	%	AF	%	AF	%	AF	%	AF	%	AF	%
Boulder & Larimer Aka Ish	Little Thompson	1,357	18	1,161	16	2,588	35	7,061	96	5,400			
Boyd Lake	Big Thompson	21,116	36	22,791	39	31,060	53	47,834	82	39,662			
Carter Reservoir	Big Thompson	31,745	28	100,162	89	65,870	59	107,597	96	59,559			
Cemetery Lake aka South Lake	Big Thompson	350	92	308	81	350	92	369	98	359			
Donath	Big Thompson	368	32	467	41	390	34	1,068	93	425			
Hertha Reservoir	Dry Ck. Hertha	497	27	1,432	78	869	58	1,352	73	531			
Horseshoe Reservoir	Big Thompson	6,161	76	5,545	69	4,761	59	7,604	94	5,065			
Lake Loveland	Big Thompson	12,106	95	7,658	60	11,172	88	12,297	96	9,640			
Lon Hagler	Big Thompson	4,893	97	4,816	96	4,971	99	5,108	101	4,951			
Lonetree	Big Thompson	4,000	43	7,299	79	7,119	77	8,282	89	7,164			
Loveland Lake	Big Thompson	539	23	851	36	733	31	1,516	65	1,297			
Mariano	Big Thompson	1,850	33	3,498	63	3,234	58	5,493	99	2,884			
Welch Lake	Big Thompson	5,199	77	4,038	60	5,749	85	5,924	88	6,147			
Other		1,854	51	1,802	50	2,069	57	2,600	72	2,006			

RESERVOIR STORAGE SUMMARIES

WATER DISTRICT 5

RESERVOIR NAME	STREAM SOURCE	PREVIOUS IYR				PREVIOUS IYR				PREVIOUS IYR			
		Beg. IYR	%	Beg. Irr. Season	%	Beg. IYR	%	Beg. Irr. Season	%	Beg. IYR	%	Beg. Irr. Season	%
		AF		AF		AF		AF		AF		AF	
Beaver Pond	Beaver Creek	20.7	01	113	05	1,330	62	1,597	74	1,386			
Foothills	St. Vrain	2,520	58	2,923	67	1,771	41	3,466	80	2,158			
Highland #1	St. Vrain	873	82	844	79	824	77	834	78	884			
Highland #2	St. Vrain	2,519	68	2,347	63	2,534	68	2,583	70	2,793			
Highland #3	St. Vrain	897	54	862	52	1,084	65	1,098	66	1,200			
McIntosh	St. Vrain	2,031	82	1,816	74	1,389	56	2,434	99	1,745			
Pleasant Valley	St. Vrain	2,003	65	1,951	63	2,810	91	3,076	100	2,586			
Oligarchy Res. #1	St. Vrain	1,239	71	480	28	1,698	98	1,397	80	1,471			
Union	St. Vrain	6,438	50	9,585	75	12,715	100	12,715	100	11,836			
Left Hand Park	Left Hand Ck.	1,269	83	1,219	80	1,347	88	1,347	88	995			
Left Hand Valley	Left Hand Ck.	471	12	1,323	35	3,678	97	3,713	98	2,557			
Buttom Rock	St. Vrain	12,603	63	9,645	48	15,457	77	14,140	70	14,489			
New Thomas	St. Vrain	2,228	97	2,264	98	2,246	98	1,479	64	2,130			
Lagermann	Left Hand Ck.	502	54	541	59	886	96	876	95	867			

RESERVOIR STORAGE SUMMARIES

WATER DISTRICT 6

RESERVOIR NAME	STREAM SOURCE	PREVIOUS IYR		PREVIOUS IYR		PREVIOUS IYR		PREVIOUS IYR		PREVIOUS IYR		PREVIOUS IYR	
		Beg. IYR	%	Beg. Irr. Season	%	Beg. IYR	%	Beg. Irr. Season	%	Beg. IYR	%	Beg. Irr. Season	%
Albion	Albion Creek	1,111	100	1,111	100	1,111	100	1,111	100	1,111	100	1,111	100
Barker	Boulder Creek	8,711	76	3,514	30	8,338	72	1,503	13	1,503	13	1,503	13
Baseline	Boulder Creek	2,816	53	3,430	65	3,430	65	5,070	96	5,070	96	5,070	96
Boulder	Boulder Creek	3,758	22	6,470	37	5,099	29	7,895	45	7,895	45	7,895	45
Goose	North Boulder	945	91	0	0	771	74	0	0	0	0	0	0
Great Western	Coal Creek	2,328	113	1,551	76	3,003	146	3,053	150	3,053	150	3,053	150
Gross	South Boulder	30,281	74	16,609	40	39,139	95	23,211	57	23,211	57	23,211	57
Hillcrest	Boulder Creek	1,985	110	1,800	99	2,047	113	2,037	112	2,037	112	2,037	112
Leggett	Boulder Creek	1,435	126	1,297	114	1,481	130	1,473	129	1,473	129	1,473	129
Marshall	South Boulder	2,834	27	3,894	37	6,725	64	9,438	90	9,438	90	9,438	90
McKay	South Boulder	371	44	371	44	554	65	674	79	674	79	674	79
Panama	Boulder Creek	2,196	44	3,765	75	3,854	77	4,345	87	4,345	87	4,345	87
Silver	North Boulder	3,730	94	251	06	3,883	97	1,370	34	1,370	34	1,370	34
Six Mile	Boulder Creek	631	57	980	89	916	83	1,248	113	1,248	113	1,248	113
Valmont	South Boulder	6,919	62	6,488	58	7,061	63	7,037	63	7,037	63	7,037	63

RESERVOIR STORAGE SUMMARIES

WATER DISTRICT 7

RESERVOIR NAME	STREAM SOURCE	PREVIOUS IYR		PREVIOUS IYR		PREVIOUS IYR		PREVIOUS IYR		PREVIOUS IYR	
		Beg. IYR AF	%	Beg. Irr. Season AF	%	Beg. IYR AF	%	Beg. Irr. Season AF	%	Beg. IYR AF	%
Ralston	Ralston Creek	8,275	65	6,364	50	9,984	78	9,056	71	9,870	91
Long Lake	Ralston Creek	96	6	444	29	594	39	1,279	85	1,261	85
Tucker	Ralston Creek	254	23	289	26	181	17	396	36	254	25
Leyden	Clear Creek	2	.1	41	4	285	25	809	70	916	70
Hyatt	Clear Creek	510	47	904	83	887	81	778	71	819	71
Standley	Clear Creek	26,099	62	27,064	64	42,166	99	37,394	88	41,562	99
Coors B3	Clear Creek	2,514	100	2,304	92	2,511	99	2,514	100	2,514	100
Blunn	Clear Creek					1,050	18	1,700	29	4,600	29
Others		3,722	55	5,480	82	4,883	73	6,258	93	6,008	93

RESERVOIR STORAGE SUMMARIES

WATER DISTRICT 8

RESERVOIR NAME	STREAM SOURCE	PREVIOUS IYR				Beg. Irr. Season				End IYR
		Beg. IYR AF	%	Beg. Irr. Season AF	%	Beg. IYR AF	%	Beg. Irr. Season AF	%	
Aurora Rampart	Gulch	978	82	741	62	1,020	85	1,221	102	1,086
Chatfield	South Platte	18,754	08	21,706	10	25,170	12	27,409	13	26,289
Cherry Creek	Cherry Creek	11,604	05	11,471	05	11,373	05	14,181	06	14,092
Marston	South Platte	14,699	74	14,576	74	9,739	49	16,568	84	9,613
McLellan	Dad Clark Gulch	3,870	65	3,548	59	5,326	89	5,674	95	5,665
Platte Canon	South Platte	927	96	921	96	917	95	910	95	0
Quincy	South Platte	2,124	57	1,028	28	1,753	47	2,348	63	2,541
Strontia Springs	South Platte							7,691	99	7,021

RESERVOIR STORAGE SUMMARIES

WATER DISTRICT 9

RESERVOIR NAME	STREAM SOURCE	PREVIOUS IYR				PREVIOUS IYR				PREVIOUS IYR			
		Beg. IYR	Beg. IYR	Beg. Irr. Season	%	Beg. IYR	Beg. IYR	Beg. Irr. Season	%	Beg. IYR	Beg. IYR	Beg. Irr. Season	%
		AF	AF			AF	AF			AF	AF		
Soda # 2 (East)	Bear Creek	461	1,470	98	100	1,507	1,507	100	100	1,507	1,507	100	1,507
Bowles	Bear Creek	1,760	1,760	71	85	2,113	2,113	85	85	2,113	2,113	85	1,610
Patrick	Bear Creek	847	1,019	92	72	800	847	76	76	847	847	76	558
Bear Creek Reservoir	Bear Creek	1,989	1,989	4	4	1,989	2,095	4	4	2,095	2,095	4	1,989
Others		3,296	3,233	51	61	3,841	3,618	58	58	3,618	3,618	58	4,028

RESERVOIR STORAGE SUMMARIES

WATER DISTRICT 23

RESERVOIR NAME	STREAM SOURCE	PREVIOUS IYR				PREVIOUS IYR				PREVIOUS IYR			
		Beg. IYR	Beg. IYR	Beg. Irr. Season	%	Beg. IYR	Beg. IYR	Beg. Irr. Season	%	Beg. IYR	Beg. IYR	Beg. Irr. Season	%
		AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF
Antero Reservoir	S. Fk-S. Platte	12,901	15,838	19	15,937	15,838	19	15,838	15,838	15,838	19	15,996	15,996
Montgomery	Mid. Fk-S. Platte	3,723	445	09	4,354	445	86	750	750	750	15	3,979	3,979
Eleven Mile	Mid. Fk-S. Platte	94,654	97,779	100	70,607	97,779	72	86,329	86,329	86,329	88	97,799	97,799
Spinney Mountain	Mid. Fk-S. Platte	3,650	7,305	13	34,492	7,305	63	25,498	25,498	25,498	47	50,530	50,530

RESERVOIR STORAGE SUMMARIES

WATER DISTRICT 64

RESERVOIR NAME	STREAM SOURCE	PREVIOUS IYR			PREVIOUS IYR			PREVIOUS IYR						
		Beg. IYR AF	%	Beg. Irr. Season AF	%	Beg. IYR AF	%	Beg. Irr. Season AF	%	Beg. IYR AF	%	Beg. Irr. Season AF	%	End IYR
Prewitt	South Platte	14,180	59	22,100	92	19,010	79	28,134	118	20,370				20,370
North Sterling	South Platte	10,560	13	67,810	84	23,450	29	67,809	84	29,250				29,250
Julesburg	South Platte	13,733	49	23,404	83	15,087	54	23,257	82	21,214				21,214

RESERVOIR STORAGE SUMMARIES

WATER DISTRICT 80

RESERVOIR NAME	STREAM SOURCE	PREVIOUS IYR				PREVIOUS IYR				PREVIOUS IYR			
		Beg. IYR AF	%	Beg. Irr. Season AF	%	Beg. IYR AF	%	Beg. Irr. Season AF	%	Beg. IYR AF	%	Beg. Irr. Season AF	%
Cheesman Wellington	S.Fk-S. Platte N.Fk-S. Platte	64,549	82	54,603	69	78,610	99	79,606	101	77,251	101	79,606	101
		1,674	38	1,936	44	4,399	100	4,399	100	2,634	100	4,399	100
Others		757	83	868	95	856	94	856	94	1,038	94	856	94

1983

DIV 1

WATER DIVERSION SUMMARIES BY DISTRICT IN AF

WD	TOTAL DITCHES REPORTING				ESTIMATED NUMBER OF DITCH VISITATIONS	TOTAL DIVERSIONS - AF -	TOTAL DIVERSIONS TO STORAGE - AF -	TOTAL DIVERSIONS -AF -	IRRIGATION	
	WA	NWA	NR	NU					NUMBER OF ACRES IRRIGATED	AVE. AF PER ACRE
1	123	12	221	18	6,899	597,020	250,796	270,598	110,429	2.52
2	98	0	119	6	4,569	362,994	70,078	277,834		
3	120	0	281	41	25,837	481,578	318,796	138,116		
4	89	0	177	4	4,472	203,222	64,190	134,724		
5	176	2	18	9	5,449	114,944	9,852	97,134	93,305	1.04
6	79	0	74	3	7,127	217,494	37,272	78,350		
7	143	0	69	16	17,463	207,136	59,326	74,290		
8	261	0	91	67	3,656	321,891	90,802	49,412	20,154	2.45
9	57	0	484	2	1,858	12,200	1,398	10,802	7,685	1.41
23	186	0	50	6	4,179	179,902	86,166	62,002	24,363	2.54
48	50	0	16	0	1,507	8,454		8,454	4,575	1.85
49	3	0	9	0	619	9,244		9,244		
64	101	6	33	20	4,076	266,870	16,028	233,176	160,947	1.45
65	12	0	10	0	1,013	18,042		18,042		
80	211	1	27	48	362	10,345	1,548	8,738	3,527	2.48
Total	1,709	21	1,679	240	89,086	3,011,336	1,006,252	1,470,916	<u>424,985</u>	<u>1.96</u>

1983

Div 1 WATER DIVERSION SUMMARIES BY DISTRICT IN AF (CONTINUED)

WD	TRANS-MOUNTAIN OUTFLOW	TRANSBASIN OUTFLOW	MUNICIPAL	INDUSTRIAL	RECREATIONAL	FISHERY	COMMERCIAL	RECHARGE	AUG.
1				18,142				57,484	
2			24,652	14			6,172	8,910	
3			4,308						
4			7,958						
5			100,872	986					6,636 ⁷
6			19,260	40,988					47.5
7			169,692	8,216		3,674			
8			4,910						
9			14,718	4,086	3,744	1,808	16	2	768
23									
48				2,164			798	7,954	3,375.4
49									29.64
64									
65									
80									
total			346,370	74,596	3,744	5,482	6,986	74,350	10,863.54

WATER COURT ACTIVITIES

No. of Applications for Decree	372
No. of Consultations with Referee	372
No. of Decrees issued by Water Court	568

Type of Decrees	No. of Decrees	Description	No. of Decrees	Type of Structures				Other Total	
				Ditch	Res.	Spring	Well		
New Appropriation Change	349	TFR	13	45	59	40	418	6*	562
	135	Alternate Point	13	230	191	2	246	4	673
		Change Use	4						
		Diligence	43						
		Abandonment	2						
		Correction	16						
		Aug. Plan	27						
		Change Point Diversion	12						
		Change Point Use	2						
		Exchange	2						
		Other	1						
		Dismissal	66						
		Vacate	3						
	Injunction	6							
	Stipulation	6							
	Other	3							
Totals	568								1,235+

+Involving New or Changes to 3,453 Priorities

*Includes 5 Minimum Flow "Structures"

WATER DIVISION NO. 1

ACTIVITY SUMMARY

ACTIVITY	MONTHLY TOTAL	FISCAL YEAR TO DATE
Number of professional and technical staff		6
Number of clerical staff		2
Number of Water Commissioner FTE assigned (full and part-time)		Full/time 15 Part/time 11
Number of decreed surface rights		
Number of surface rights administered		
Number of wells		60,740
Number of plans for augmentation		27
Number of consultations with Referee		405
Number of Water Court appearances		197
Number of meetings with water users		6,825
Number of meetings to resolve water related disputes		317
Number of contacts to give public assis- tance on water matters		17,274
Contacts with other agencies		147
*To be determined		

COMPACTS

SOUTH PLATTE RIVER COMPACT

The Colorado-Nebraska Compact on the South Platte provides that Colorado shall have the full use of the river water between the fifteenth of October of any year and the first day of April of the succeeding year but that, between the first day of April and the fifteenth of October of each year, Colorado shall not permit diversions from the river below the Washington-Morgan County line to supply water rights having priority dates junior to June 14, 1897 to the extent that they would diminish the flow of the river at the Julesburg gaging station below a daily mean flow of 120 cfs.

Normally it is not necessary to curtail any surface diversion in Colorado to honor the compact because stream flows are inadequate to satisfy all the water rights senior to the compact date.

Preliminary flow data for the Julesburg station indicates that during the 198 day period from April 1 to October 15, 1983 the mean daily flow did not drop below 120 cfs.

REPUBLICAN RIVER COMPACT

The Republican River Compact allocates water to the signatory states, Colorado, Kansas and Nebraska on the basis of beneficial consumptive use. Colorado's total allocation of 54,100 acre feet is broken down as follows:

North Fork of the Republican River Drainage Basin	10,000 AF
Arikaree River Drainage Basin	15,400 AF
South Fork of the Republican River Drainage Basin	25,400 AF
Beaver Creek Drainage Basin	3,300 AF

and in addition, for beneficial consumptive use in Colorado annually, the entire water supply of the Frenchman Creek (River) Drainage Basin in Colorado and the Red Willow Creek Drainage Basin in Colorado.

The computed annual consumptive use in Colorado in the Republican River Basin for the 1982 water year, the last year for which official figures are available, was as follows:

<u>STREAM</u>	<u>CONSUMPTION</u>	<u>PERCENT OF ALLOCATION</u>
North Fork of Republican River	7,240	72.4
South Fork of Republican River	15,380	99.9
Arikaree River	4,060	16.0
Beaver Creek	0	0
	<u>26,680 AF</u>	<u>49.3 Percent</u>

LARAMIE RIVER COMPACT

The 1957 decree of the United State Supreme Court limits the diversions from the Laramie River and its tributaries to 49,375 acre feet annually for the State of Colorado. Of that amount, 19,875 acre feet are allocated to Transmountain Users and the remaining 29,500 acre feet to the Meadowland Users within the river basin. The Meadowland Users are further restricted to diversions of not more than 1,800 acre feet after July 31 of each year. In the event that the Transmountain Users do not divert their full allotment, the Meadowland Users may divert the difference between the 19,875 acre feet and the actual amount if diverted within the same year.

Sand Creek, which arises in Colorado, later becoming tributary to the Laramie River in Wyoming, is not included within the terms of the compact. Instead, Colorado and Wyoming have a working agreement whereby senior water rights on Sand Creek in Wyoming are recognized before junior diversions are made in Colorado through the Wilson Supply Canal a transbasin diversion.

In 1983 the transmountain diversions under the Laramie River Compact totaled 15,790 acre feet of the 19,875 acre feet compact allowance. The meadowland diversions totaled 4,230 acre feet or some 14% of the allotment. Total Colorado diversions were 20,200 acre feet or 41% of the total allotment of 49,375 acre feet.