

RICHARD D. LAMM
Governor



JERIS A. DANIELSON
State Engineer

DIVISION OF WATER RESOURCES
WATER DIVISION I

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WATER RESOURCES
ENGINEER
DOLG.

January 14, 1985

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. I for the 1984 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:rh

ANNUAL REPORT
DIVISION NO. I
1984 IRRIGATION YEAR
NOV. 1, 1983 - OCT. 31, 1984

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) Determined how much surface water was available through the efforts of our hydrographers.
- b) Expanded our program of providing more broad-based experience for hydrographers by involving them more in administrative and legal activities.
- c) Continued to tabulate augmentation plans as decreed.
- d) Performed in depth review of District 8 tabulation with Joe Clayton before he retired.
- e) Continued to code diversion records for augmentation plans.
- f) Continued to streamline and make more efficient the information gathering system for Referee consultation.
- g) Continued our efforts to spend more time with water commissioners, resulting in closer supervision and improved administration.
- h) Continued the administration of Northglenn augmentation plan with the help of a special court approved water commissioner.
- i) Involved water commissioners in closer surveillance of dams.
- j) Survived another year of high flows on many division streams with the help of the Emergency Preparedness Program.
- k) Involved Division Staff Engineers in the inspection of dams within the Division.
- l) Submitted the Abandonment List to the Water Court for further proceedings. This list included 594 structures/priorities. Ten motions to delete structures from the Abandonment List and 25 motions to correct clerical errors in the Abandonment List were filed. A total of 156 protests to the Abandonment List were filed, involving 193 structures/priorities.

2. Involvement in Water User Community
 - a) Daily public contact - provided information and answered questions.
 - b) Met with several entities regarding high water problems. These entities included Army Corps of Engineers, County Commissioners, Ditch Company Associations, Ditch Companies, Conservancy Districts and Others.
 - c) Chatfield Reservoir releases were coordinated for construction in the South Platte River Channel.
 - d) Cherry Creek Reservoir releases were coordinated for construction in the channel of Cherry Creek continued.
 - e) Administered reservoirs on the South Platte River more closely.
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 could have a large impact, depending on degree of implementation.
 - b) Deep Well Legislation
 - 1) Getches Committee report on proposed legislation.
 - 2) Interim legislative committee recommendations.
 - 3) Possible proposals to legislature by Colorado Water Congress.

All or a combination of the above would have a significant impact on Division I. This will require 2-3 man hours each day during the runoff season.

- c) Cherry Creek Administration.
- d) Satellite monitoring program will take a considerable amount of time, but will expand our capabilities. Monitoring of the Satellite data will probably require 2-3 man hours each day during the runoff season.

- e) Monitoring of wells and increased field investigations for well replacements and court consultations will continue to take more time away from surface water administration.
4. Problems, concerns, issues, tasks not addressed this year. Why?
- a) Court decrees for water rights below the headgate:
 - 1) Expanded Use.
 - 2) Tabulation.
 - 3) Investigation.
 - 4) Administration.
 - 5) Ownership.
 - 6) 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 station maintenance that is not 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) Programs for our Wang Computer are needed as soon as possible since the keypunch machines we have been using at UNC are not being repaired any longer.
 - b) The court hearing schedule will be increased due to the large number of protests to the Abandonment List.
 - 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 each month.
 - e) Increase and improve well administration.
 - f) Continue to 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 the possibility of having the court standardize certain language in decrees where decisions have already been made in other decrees and should not vary.

II. Recommendations

A. Policies (new or change)

1. Water administration

- a) Some guidelines would be helpful for possible future administration of Cherry Creek.
- 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 by water commissioners would improve administrative capabilities.

2. Personnel

- a) Training program.

3. Budget

- a) More up-to-date, understandable, information for use of division offices.

4. Litigation activities

- a) Some guidelines would be especially helpful 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.

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 10,075 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 R.	1,080	36	278	11	48	Sand & Deadman	
3	Deadman Ditch	Cache La Poudre R.	264	24	6.2	3	48	Deadman Creek	
3	Bob Creek Ditch	Cache La Poudre R.	0	0	0	0	48	Nunn Creek	
3	Columbine Ditch	Cache La Poudre R.	0	0	0	0	48	Deadman Creek	
3	Laramie-Poudre Tunnel	Cache La Poudre R.	14,470	65	18,030	75	48	Laramie River	
3	Skyline Ditch	Cache La Poudre R.	1,060	16	1,230	19	48	Laramie River	
3	Cameron Pass Ditch	Cache La Poudre R.	0	0	0	0	47	Michigan River	
3	Michigan Ditch	Cache La Poudre R.	358	47	227	20	47	Michigan River	
3	Grand River Ditch	Cache La Poudre R.	12,670	75	17,620	111	51	Colorado River	
4	Eureka Ditch	Big Thompson River	0	0	36	105	51	Colorado River	
4	Adams Tunnel	Big Thompson River	165,800	346	195,500	324	51	Colorado River	
6	Moffat Tunnel	South Platte River	36,240	318	36,510		51	Fraser River	
7	Berthoud Pass Ditch	Clear Creek	708	132			51	Fraser River	
7	Vidler Tunnel	Clear Creek	475	53	396		51	Montezuma Cr.	
23-8	Roberts Tunnel	South Platte River	7,940	46		0	36	Blue River	
23	Boreas Pass Ditch	South Platte River	0	0	0		36	Indiana Creek	
23	Hoosier Pass Ditch	Arkansas River	6,180	112			36	Blue River	
23	Aurora Homestake	South Platte River	5,410	61			37	Homestake Cr.	

RESERVOIR STORAGE SUMMARIES

WATER DISTRICT 1

RESERVOIR NAME	STREAM SOURCE	PREVIOUS IYR				IYR				PREVIOUS IYR				IYR			
		Beg. IYR	Beg. IYR	Beg. Irr. Season	%	Beg. IYR	Beg. IYR	Beg. Irr. Season	%	Beg. IYR	Beg. IYR	Beg. Irr. Season	%	Beg. IYR	Beg. IYR	Beg. Irr. Season	%
Bijou #2	South Platte	3,500	3,010	33	38	1,950	1,950	21	21	3,430	3,430	37	37	4,300	4,300	37	37
Empire	South Platte	26,895	30,814	82	71	14,815	14,815	39	39	30,552	30,552	81	81	11,951	11,951	81	81
Jackson	South Platte	22,252	35,195	99	62	17,634	17,634	49	49	21,263	21,263	60	60	15,083	15,083	60	60
Riverside	South Platte	36,086	58,449	90	56	16,342	16,342	25	25	61,597	61,597	95	95	6,290	6,290	95	95
Others (All)		86.8	427.7	15	03	752	752	26	26	1016.7	1016.7	35	35	394.1	394.1	35	35

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	28,843	90	27,509	86	7,737	24	27,067	84	794			
Coal Ridge	Little Dry Ck.	561	86	426	65	664	101	497	76	447			
Great Western	Walnut Creek	2,979	92	3,086	95	3,049	94	2,876	88	2,899			
Horse Creek	South Platte	8,920	30	14,605	50	12,522	43	12,862	44	11,960			
Lord	South Platte	0		580	34	179	10	327	19	338			
Lower Latham	South Platte	4,494	72	6,089	98	4,136	67	5,947	96	4,985			
Milton	South Platte	16,031		19,580		15,350		18,851		14,694			
Prospect	South Platte	2,531	40	4,603	73	4,550	72	4,199	67	3,404			
Standley	Woman Creek	42,439	100	37,494	88	41,957	99	37,095	86	41,535			

RESERVOIR STORAGE SUMMARIES

WATER DISTRICT 3

RESERVOIR NAME	STREAM SOURCE	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	%	
Fossil Creek Halligan	Fossil Creek N. Fk. Cache La Poudre	1,509	13	5,672	49	0	0	6,376	99	4,453	0	0	0	4,980
Indian Creek - aka Mountain Supply	Indian Creek	2,201	34	6,428	100	6,376	99	4,453	69	4,453	69	5,680	5,680	
North Poudre #2	La Poudre	1,183	62	1,129	59	0	0	890	47	890	47	1,556	1,556	
North Poudre #3	N. Fk. Cache La Poudre	2,702	69	2,951	75	1,776	45	2,731	69	2,731	69	0	0	
North Poudre #4	N. Fk. Cache La Poudre	2,206	64	2,473	72	0	0	2,613	75	2,613	75	2,760	2,760	
North Poudre #5	N. Fk. Cache La Poudre	755	45	755	45	755	45	773	46	773	46	0	0	
North Poudre #6	N. Fk. Cache La Poudre	3,840	46	4,534	54	3,495	41	3,557	42	3,557	42	4,232	4,232	
North Poudre #15	N. Fk. Cache La Poudre	489	05	800	08	870	09	732	07	732	07	546	546	
Park Creek	N. Fk. Cache La Poudre	4,304	78	4,822	87	3,813	69	3,340	60	3,340	60	3,522	3,522	
Park Creek	Park Creek	6,852	93	6,441	88	6,747	91	5,653	77	5,653	77	5,107	5,107	
Cobb Lake	Cache La Poudre	19,950	89	19,450	87	20,510	92	20,625	92	20,625	92	19,130	19,130	
Seaman - aka Milton Sea	N. Fk. Cache La Poudre	2,529	50	2,943	59	3,292	66	868	17	868	17	1,567	1,567	
Claymore	Cache La Poudre	482	47	775	76	354	35	620	61	620	61	105	105	
Panhandle	Panhandle Ck.	1,011	43	1,011	43	1,011	43	1,011	43	1,011	43	841	841	
Seeley	Cache La Poudre	1,243	81	976	63	1,144	74	1,069	69	1,069	69	532	532	
Warren	Cache La Poudre	1,697	81	1,473	70	1,531	73	1,459	69	1,459	69	1,501	1,501	
Wood	Rollard Draw	1,679	54	2,255	73	1,786	58	2,115	68	2,115	68	1,619	1,619	
Joe Wright - aka Cameron	Joe Wright Ck.	5,593	77	6,005	83	5,310	74	5,992	83	5,992	83	4,988	4,988	

RESERVOIR STORAGE SUMMARIES

WATER DISTRICT 3

RESERVOIR NAME	STREAM SOURCE	PREVIOUS IYR				IYR				PREVIOUS IYR				IYR							
		Beg. IYR		%		Beg. Irr. Season		%		Beg. IYR		%		Beg. Irr. Season		%		Beg. IYR		%	
		AF				AF				AF				AF				AF			
Rawhide	Cache La Poudre	11,029	72	12,722	83	15,390	100	16,082	104	15,390	100	16,082	104	15,390	100	16,082	104	15,390	100	16,082	104
Horse Tooth	Dixon Canyon Ck	84,182	55	126,047	83	111,220	73	143,724	94	111,220	73	143,724	94	111,220	73	143,724	94	111,220	73	143,724	94
Douglass	Cache La Poudre	7,772	83	8,422	90	4,399	47	5,134	55	4,399	47	5,134	55	4,399	47	5,134	55	4,399	47	5,134	55
Windsor Res. #8	Cache La Poudre	9,464	92	8,608	84	8,070	78	8,097	79	8,070	78	8,097	79	8,070	78	8,097	79	8,070	78	8,097	79
No. 8 Annex	Cache La Poudre	3,473	95	3,100	85	2,870	78	2,879	78	2,870	78	2,879	78	2,870	78	2,879	78	2,870	78	2,879	78
Windsor Res.	Cache La Poudre	14,150	80	13,735	78	8,852	50	16,333	92	8,852	50	16,333	92	8,852	50	16,333	92	8,852	50	16,333	92
Chambers	Joe Wright Ck.	3,010	34	5,144	58	2,868	32	3,050	34	2,868	32	3,050	34	2,868	32	3,050	34	2,868	32	3,050	34
Long Draw - aka	Long Draw Ck.	6,705	61	8,131	74	7,639	69	8,968	82	7,639	69	8,968	82	7,639	69	8,968	82	7,639	69	8,968	82
Grand River																					
Black Hollow	Cache La Poudre	4,459	55	5,397	67	3,445	43	3,777	47	3,445	43	3,777	47	3,445	43	3,777	47	3,445	43	3,777	47
Curtis	Cache La Poudre	790	63	778	62	718	57	766	61	718	57	766	61	718	57	766	61	718	57	766	61
Kluyer	Cache la Poudre	819	71	844	74	802	70	785	68	802	70	785	68	802	70	785	68	802	70	785	68
Long Pond - aka	Cache La Poudre	2,757	68	2,949	73	2,757	68	2,949	72	2,757	68	2,949	72	2,757	68	2,949	72	2,757	68	2,949	72
Water Supply #5,6,7																					
Rocky Ridge - aka	Cache La Poudre	3,488	79	3,383	76	3,423	77	3,586	81	3,423	77	3,586	81	3,423	77	3,586	81	3,423	77	3,586	81
Water Supply #1																					
Water Supply #3	Long Pond Res.	4,040	84	3,880	80	3,900	81	3,609	75	3,900	81	3,609	75	3,900	81	3,609	75	3,900	81	3,609	75
Water Supply #4	Long Pond Res.	790	54	945	64	655	45	866	59	655	45	866	59	655	45	866	59	655	45	866	59
Terry - aka	Cache La Poudre	4,805	60	5,235	64	5,191	64	5,590	68	5,191	64	5,590	68	5,191	64	5,590	68	5,191	64	5,590	68
Larimer Weld																					
Worster	Sheep Creek	322	08	1,017	27	273	07	932	25	273	07	932	25	273	07	932	25	273	07	932	25
Timnath	Duck Slough	7,306	72	10,070	100	1,735	17	10,131	101	1,735	17	10,131	101	1,735	17	10,131	101	1,735	17	10,131	101
Windsor Lake	Cache La Poudre	849	58	1,113	76	969	66	1,032	70	969	66	1,032	70	969	66	1,032	70	969	66	1,032	70
Barnes	Barnes Meadows Ck.	2,458	67	615	17	1,846	50	1,949	53	1,846	50	1,949	53	1,846	50	1,949	53	1,846	50	1,949	53
Others		4,714	52	5,558	61	4,580	50	4,157	46	4,580	50	4,157	46	4,580	50	4,157	46	4,580	50	4,157	46

RESERVOIR STORAGE SUMMARIES

WATER DISTRICT 4

RESERVOIR NAME	STREAM SOURCE	PREVIOUS IYR				CURRENT IYR				
		Beg. IYR AF	%	Beg. Irr. Season AF	%	Beg. IYR AF	%	Beg. Irr. Season AF	%	
Boulder & Larimer - aka Ish	Little Thompson	2,588	35	7,061	96	5,400	74	7,061	96	2,588
Boyd Lake	Big Thompson	31,060	53	47,834	82	39,662	68	40,590	69	36,351
Carter Reservoir	Big Thompson	65,870	59	107,597	96	59,559	53	107,259	96	93,870
Cemetery Lake - aka South Lake	Big Thompson	350	92	369	98	359	95	359	95	350
Donath	Big Thompson	390	34	1,068	93	425	37	1,013	88	437
Hertha Reservoir	Dry Ck. Hertha	896	58	1,352	73	531	28	368	19	0
Horseshoe Reservoir	Big Thompson	4,761	59	7,604	94	5,065	63	6,863	85	7,231
Lake Loveland	Big Thompson	11,172	88	12,297	96	9,640	76	11,772	92	4,335
Lon Hagler	Big Thompson	4,971	99	5,108	101	4,951	98	5,018	100	4,990
Lone Tree	Big Thompson	7,119	77	8,282	89	7,164	77	8,525	92	7,806
Loveland Lake	Big Thompson	733	31	1,516	65	1,297	55	1,920	82	1,574
Mariano	Big Thompson	3,234	58	5,493	99	2,884	52	5,260	94	4,731
Welch Lake	Big Thompson	5,749	85	5,924	88	6,147	91	6,561	97	6,058
Other		2,069	57	2,600	72	2,006	55	1,870	52	2,031

RESERVOIR STORAGE SUMMARIES

RESERVOIR NAME	STREAM SOURCE	PREVIOUS IYR				CURRENT IYR				
		Beg. IYR		Beg. Irr. Season		Beg. IYR		Beg. Irr. Season		
		AF	%	AF	%	AF	%	AF	%	
Beaver Pond	Beaver Creek	1,330	62	1,597	74	1,386	64	1,679	78	1,536
Foothills	St. Vrain	1,771	41	3,466	80	2,158	49	3,000	69	2,969
Highland #1	St. Vrain	824	77	834	78	884	83	895	84	916
Highland #2	St. Vrain	2,534	68	2,583	70	2,793	75	3,192	86	2,583
Highland #3	St. Vrain	1,084	65	1,098	66	1,200	72	1,216	73	501
McIntosh	St. Vrain	1,389	56	2,434	99	1,745	71	1,839	75	1,816
Pleasant Valley	St. Vrain	2,810	91	3,076	100	2,586	84	3,043	99	2,460
Oligarchy Res. #1	St. Vrain	1,698	98	1,397	80	1,471	85	1,650	95	1,659
Union	St. Vrain	12,715	100	12,715	100	11,836	93	12,715	100	12,715
Left Hand Park	Left Hand Ck.	1,347	88	1,347	88	995	65	1,032	68	1,050
Left Hand Valley	Left Hand Ck.	3,678	97	3,713	98	2,557	68	3,763	99	3,307
Button Rock	St. Vrain	15,457	77	14,140	70	14,489	72	13,696	68	12,715
New Thomas	St. Vrain	2,246	98	1,479	64	2,130	93	1,931	84	1,761
Lagermann	Left Hand Ck.	886	96	876	95	867	94	886	96	895

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. IYR	%	Beg. IYR	%	Beg. IYR	%	Beg. IYR	%	Beg. IYR	%
		AF	%	AF	%	AF	%	AF	%	AF	%	AF	%
Albion	Albion Creek	1,111	100	1,111	100	1,111	100	1,111	100	1,111	100	1,111	100
Barker	Boulder Creek	8,338	72	1,503	13	4,805	42	1,022	9	1,022	9	1,022	9
Baseline	Boulder Creek	3,430	65	5,070	96	3,480	66	5,380	102	5,380	102	5,380	102
Boulder	Boulder Creek	5,099	29	7,895	45			4,736	27	4,736	27	5,090	27
Goose	North Boulder	771	74	0		0		225	22	225	22	388	22
Great Western	Coal Creek	3,003	146	3,053	150	3,026	147	2,872	140	2,872	140	2,899	140
Gross	South Boulder	39,139	95	23,211	57	32,426	79	26,614	65	26,614	65	37,485	65
Hillcrest	Boulder Creek	2,047	113	2,037	112	1,937	107	1,928	106	1,928	106	1,942	106
Leggett	Boulder Creek	1,481	130	1,473	129	1,399	123	1,392	122	1,392	122	1,402	122
Marshall	South Boulder	6,725	64	9,438	90	6,773	65	9,438	90	9,438	90	6,725	90
McKay	South Boulder	554	65	674	79	531	63	641	76	641	76	554	76
Panama	Boulder Creek	3,854	77	4,345	87	3,331	67	3,944	79	3,944	79	3,267	79
Silver	North Boulder	3,883	97	1,370	34	3,730	94	865	22	865	22	3,935	22
Six Mile	Boulder Creek	916	83	1,248	113	743	67	1,260	115	1,260	115	1,022	115
Valmont	South Boulder	7,061	63	7,037	63	6,807	61	6,787	61	6,787	61	6,819	61

RESERVOIR STORAGE SUMMARIES

WATER DISTRICT 7

RESERVOIR NAME	STREAM SOURCE	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	%	Beg. Irr. Season AF	%	End IYR
Ralston	Ralston Creek	9,984	78	9,056	71	9,870	77	9,248	73	10,098				
Long Lake	Ralston Creek	594	39	1,279	85	1,261	83	1,159	77	351				
Tucker	Ralston Creek	181	17	396	36	254	23	475	43	236				
Leyden	Clear Creek	285	25	809	70	916	80	916	80	798				
Hyatt	Clear Creek	887	81	778	71	819	75	818	75	443				
Standley	Clear Creek	42,166	99	37,394	88	41,562	98	37,109	88	41,924				
Coors B 3	Clear Creek	2,511	99	2,514	100	2,514	100	2,514	100	2,514				
Blunn	Clear Creek	1,050	18	1,700	29	4,600	79	5,269	91	5,462				
Others		4,883	73	6,258	93	6,008	79	3,271	56	3,756				

RESERVOIR STORAGE SUMMARIES

WATER DISTRICT 8

RESERVOIR NAME	STREAM SOURCE	PREVIOUS IYR				CURRENT IYR				End IYR
		Beg. IYR AF	%	Beg. Irr. Season AF	%	Beg. IYR AF	%	Beg. Irr. Season AF	%	
Aurora Rampart	Gulch	1,020	85	1,221	102	1,086	91	1,182	99	1,118
Chatfield	South Platte	25,170	12	27,409	13	26,289	12	24,387	11	27,266
Cherry Creek	Cherry Creek	11,373	05	14,181	06	14,092	06	15,499	06	15,103
Marston	South Platte	9,739	49	16,568	84	9,613	49	16,802	85	9,638
McLellan	Dad Clark Gulch	5,326	89	5,674	95	5,665	94	5,557	93	5,575
Platte Canon	South Platte	917	95	910	95	0	68	763	76	0
Quincy	South Platte	1,753	47	2,348	63	2,541	68	2,458	66	2,527
Strontia Springs	South Platte			7,691	99	7,021	90	7,264	93	7,166

RESERVOIR STORAGE SUMMARIES

WATER DISTRICT 9

RESERVOIR NAME	STREAM SOURCE	PREVIOUS IYR				PREVIOUS IYR				End IYR
		Beg. IYR AF	%	Beg. Irr. Season AF	%	Beg. IYR AF	%	Beg. Irr. Season AF	%	
Soda # 2 (East)	Bear Creek	1,507	100	1,507	100	1,507	100	1,507	100	1,507
Bowles	Bear Creek	2,113	85	2,113	85	1,610	65	1,610	65	1,335
Patrick	Bear Creek	800	72	847	76	558	50	558	50	558
Bear Creek Reservoir	Bear Creek	1,989	4	2,095	4	1,989	4	2,217	4	2,154
Others		3,841	61	3,618	58	4,028	73	4,094	74	4,850

RESERVOIR STORAGE SUMMARIES

WATER DISTRICT 23

RESERVOIR NAME	STREAM SOURCE	PREVIOUS IYR				PREVIOUS IYR				End IYR
		Beg. IYR AF	%	Beg. Irr. Season AF	%	Beg. IYR AF	%	Beg. Irr. Season AF	%	
Antero Reservoir	S.Fk. S. Platte	15,937	19	15,838	19	15,996	19	15,878	19	15,937
Montgomery	Mid.Fk.S.Platte	4,354	86	750	15	3,979	78	610	12	4,686
Eleven Mile	Mid.Fk.S.Platte	70,607	72	86,329	88	97,799	100	97,779	100	102,018
Spinney Mountain	Mid.Fk.S.Platte	34,492	63	25,498	47	50,530	93	48,701	89	49,359

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	19,010	79	28,134	20,370	85	24,980	24,980	104	21,890	
North Sterling	South Platte	23,450	29	67,809	29,250	36	70,040	70,040	87	36,810	
Julesburg	South Platte	15,087	54	23,257	21,214	75	24,980	24,980	89	15,213	

RESERVOIR STORAGE SUMMARIES

WATER DISTRICT 80

RESERVOIR NAME	STREAM SOURCE	PREVIOUS IYR				IYR				PREVIOUS IYR				IYR							
		Beg. IYR		%		Beg. IYR		%		Beg. IYR		%		Beg. IYR		%		Beg. IYR		%	
		AF				AF				AF				AF				AF			
Cheesman Wellington	S.Fk.S.Platte	78,610		99		79,606		101		77,251		98		79,553		101		78,732			
	N.Fk.S.Platte	4,399		100		4,399		100		2,634		60		3,831		87		3,358			
20 Others		856		69		856		69		1,038		84		1,037		84		1,048			

1984

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	AVE. AF PER ACRE
1	257	5	165	45	9,234	685,488	327,328	301,366	186,107	1.62
2	235		72	11	5,375	422,316	92,194	318,052	182,226	1.75
3	189	1	288	45	26,038	349,848	161,862	483,114	300,690	1.63
4	274		123	1	4,831	197,316	39,449	152,856	107,706	1.42
5	229		7	2	6,811	156,444	19,836	123,106	114,206	1.08
6	202		127	89	8,173	246,692	31,506	118,428	165,470	.72
7	366		152	19	16,858	211,438	53,948	89,472	51,250	1.75
8	437		99	85	4,401	487,914	211,572	54,354	19,811	2.74
9	521		504	5	1,406	9,524	796	8,646	8,140	1.06
23	265		237	3	9,852	137,006	50,560	60,786	16,978	3.58
48	85		18	1	2,335	16,946		16,946	4,650	3.64
49	40				682	6,080		6,080	1,555	3.91
64	153	7	25	13	4,847	293,636	10,630	271,456	189,797	1.43
65	30		1		993	18,582		18,582	4,720	3.94
80	290		32	48	426	23,870	12,336	11,532	3,004	3.84
Total	3,573	13	1,850	367	102,262	3,263,100	1,012,017	2,034,776	1,356,310	1.50

1984

WATER DIVERSION SUMMARIES BY DISTRICT IN AF (CONTINUED)

WD	TRANS-MOUNTAIN OUTFLOW	TRANSBASIN OUTFLOW	MUNICIPAL	INDUSTRIAL	RECREATIONAL	FISHERY	COMMERCIAL	RECHARGE	AUG.
1				12,866				43,928	407
2			2,274				7,194	2,534	
3			24,366	4,118					
4			5,012						
5			13,502						360
6			96,758						44
7			20,260	47,758					5,578
8			208,216	9,898		3,874			62
9			82						
23			18,120	3,166	4,010	390		4	880
348									
49				1,898			1,056	8,596	2,734
64									
65									
80									
total			388,590	79,704	4,010	4,264	8,250	55,062	10,075

WATER COURT ACTIVITIES

No. of Applications for Decree	443
No. of Consultation with Referee	477
No. of Decrees issued by Water Court	504

Type of Decrees	Ditch	Type of Structures			Total
		Res.	Spring	Well	
New Appropriation	17	88	34	377	535
Change	72	152	8	659	917
TFR	2				
Alternate Point	9				
Change Use	6				
Diligence	60				
Abandonment	10				
Correction	22				
Aug. Plan	23				
Change Point Diversion	5				
Change Point Use	2				
Exchange	5				
Other	1				
Other	79				
Dismissal		68			
Vacate		3			
Injunction		6			
Stipulation		0			
Other		8			
Totals	Decrees	504	Total No. of Structures	1,452+	

+Involving New or Changes to 1,956 Priorities
 *Includes 1 Minimum Flow "Structure"

WATER DIVISION NO. I

ACTIVITY SUMMARY

ACTIVITY	MONTHLY TOTAL	FISCAL YEAR TO DATE
Number of professional and technical staff		4
Number of clerical staff		2
Number of Water Commissioner FTE assigned (full and part-time)		15 Full Time 13 Part Time
Number of decreed surface rights		9,590*
Number of surface rights administered		**
Number of wells		60,740
Number of plans for augmentation		21 - 1984
Number of consultations with Referee		477
Number of Water Court appearances		238
Number of meetings with water users		13,947
Number of meetings to resolve water related disputes		477
Number of contacts to give public assis- tance on water matters		28,217
Contacts with other agencies		180

*Estimated from Tabulation

**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, 1984, the mean daily flow dropped below 120 cfs on 15 days.

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 1984 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	8,440	84.4
South Fork of Republican River	12,390	48.8
Arikaree River	5,410	35.1
Beaver Creek	0	0
	<u>26,240 AF</u>	<u>48.5 Percent</u>

Compacts (Continued)

LARAMIE RIVER COMPACT

The 1957 decree of the United States 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 1984 the transmountain diversions under the Laramie River Compact totaled 18,310 acre feet of the 19,875 acre feet compact allowance. The meadowland diversions totaled 8,910 acre feet or some 30% of the allotment. Total Colorado diversions were 27,220 acre feet or 55% of the total allotment of 49,375 acre feet.