

COMPARISON OF 1979 STREAMFLOW FORECASTS

(In % of 1962-1978 Average)

<u>Watershed</u>	<u>2/1/79</u>	<u>3/1/79</u>	<u>4/1/79</u>	<u>5/1/79</u>	<u>5/1/78</u>
Blue River above Green Mtn. Res.	113	105	105	97	129
Colorado River above Granby Res.	128	123	131	126	125
Willow Creek	143	132	149	133	111
Poudre River @ Canyon	117	117	121	117	105
Big Thompson River @ Canyon	127	122	134	127	106
St. Vrain River @ Lyons	127	120	134	127	93
Boulder Creek @ Orodell	<u>122</u>	<u>105</u>	<u>113</u>	<u>111</u>	<u>102</u>
Total Tributaries	123	116	126	120	103

1979 PRECIPITATION WITHIN NCWCD

(Inches)

<u>Station</u>	<u>Nov.</u>	<u>Dec.</u>	<u>Jan.</u>	<u>Feb.</u>	<u>March</u>	<u>April</u>	<u>Year to Date Totals</u>
Ft. Collins	.07	.80	.35	.29	2.40	1.38	5.29
Greeley	.68	1.06	.40	.06	2.12	1.66	5.98
Longmont	.04	.88	.27	.26	1.51	1.94	4.90
Ft. Morgan	.32	.50	.30	0	1.21	1.15	3.48
Sterling	<u>.05</u>	<u>.38</u>	<u>.15</u>	<u>0</u>	<u>1.92</u>	<u>0.98</u>	<u>3.48</u>
1979 Average	0.23	0.72	0.29	0.12	1.83	1.42	4.61
1957-1978 Average	0.48	0.32	0.32	0.29	0.78	1.58	3.77
% of Average	48%	225%	91%	41%	235%	90%	122%

WATER AVAILABILITY & USE COMPARISONS (A.F.)

NCWCD SERVICE AREA

	<u>1957-1978 Average</u>	<u>1978 Actual</u>	<u>1979 Estimate</u>	<u>1979 in % of Average</u>
Stream Inflow	589,328	721,673	707,000	120%
Local Storage - Nov. 1	212,814	172,389	197,872	93%
NCWCD Quota	<u>241,800</u>	<u>186,000</u>	<u>186,000(1)</u>	<u>77%</u>
Total Available	1,043,942	1,080,062	1,090,872	105%
Direct Diversions	520,360	541,082	615,000	118%
Local Storage Used	131,681	173,414	132,000(2)	100%
NCWCD Deliveries	<u>222,016</u>	<u>180,435</u>	<u>186,000</u>	<u>84%</u>
Total Use	874,057	894,931	933,000	107%

(1) 60% Quota declared April 6, 1979

(2) Assumes Average Use

CBT INFLOW AND DELIVERY COMPARISONS
(ACRE-FEET)

GRANBY RESERVOIR

Month	Adams Tunnel Diversions		Releases to Colo. River		Net Change In Storage		Conserved Inflow	
	1978	1979	1978	1979	1978	1979	1978	1979
Nov.	18,430	24,984	1,200	1,200	- 13,501	- 21,650	4,929	3,334 (*)
Dec.	28,243	29,205	1,240	1,240	- 24,577	- 26,344	3,666	2,861
Jan.	28,207	22,518	1,240	1,240	- 25,143	- 19,589	3,064	2,929
Feb.	27,931	19,886	1,120	1,120	- 25,488	- 18,343	2,443	1,543
March	30,974	22,560	1,240	1,240	- 27,082	- 20,719	3,892	1,841
April	19,159	17,322	1,198	1,200	- 1,593	- 5,920	17,566	11,402 (*)
May	15,764		5,026		+ 47,798		63,562	
June	6,270		5,622		+154,752		161,022	
July	12,277		6,024		+ 45,333		57,610	
Aug.	30,057		2,707		- 20,437		9,620	
Sept.	25,907		1,723		- 23,916		1,991	
Oct.	25,151		1,583		- 24,719		432	
Totals Thru April 30	152,944	136,475	7,238	7,240	-117,384	-112,565	35,560	23,910 (*)
Year Totals	268,370		29,923		+ 61,427		329,797	

(*) Includes 6,310 A.F. pumped from Willow Creek Reservoir

STORAGE COMPARISON
(ACRE-FEET)

	Active Capacity	Active Storage	
		5-1-78	5-1-79
Granby Reservoir	465,568	21,114	87,360
Horsetooth Reservoir	143,486	59,080	113,703
Carter Lake	108,924	95,602	103,300
Boulder Reservoir	11,970	3,712	4,940
Total Project	729,948	179,508	309,303
Percent of Active Capacity		25%	42%
Percent of Average			68%
Cache la Poudre Reservoirs	212,802	86,816	123,650
Big & Little Thompson Reservoirs	124,286	58,798	81,540
St. Vrain & Lefthand Reservoirs	53,823	35,866	47,141
Boulder Creek Reservoirs	33,544	14,789	14,409
Total Tributaries	424,455	196,269	266,740
Percent of Active Capacity		46%	63%
Percent of Average			104%

DELIVERIES
QUOTA + REPLACEMENT

Year	April (*)	May	June	July	August	Sept.	Oct.	Total
1970	2,570	1,611	2,132	30,353	67,422	32,086	16,043	152,217
1971	2,250	2,457	5,690	86,916	80,121	26,350	19,162	222,946
1972	3,202	17,641	14,264	65,512	74,752	23,341	34,177	232,890
1973	2,923	2,631	5,379	35,842	71,829	41,254	8,027	167,886
1974	2,854	12,686	11,393	79,857	98,983	40,355	26,449	272,577
1975	3,213	14,105	4,385	34,223	87,574	45,541	33,420	222,461
1976	4,154	7,759	40,473	88,420	80,788	50,542	22,850	297,969
1977	5,571	37,573	67,523	76,167	60,244	40,813	21,586	309,477
1978	4,491	2,054	4,293	43,810	74,236	32,164	23,879	184,926
1979	4,185							
1957-1978								
Average	2,277	12,860	12,702	56,316	77,932	41,300	20,770	224,157
(Percent)	(1%)	(6%)	(6%)	(25%)	(35%)	(18%)	(9%)	(100%)

(*) Includes winter water use