



UPPER COLORADO RIVER COMMISSION

355 South Fourth East Street
Salt Lake City, Utah 84111

March 14, 1984

MEMORANDUM

TO: Upper Colorado River Commissioners and Advisers

FROM: *G. Zimmerman*
Gerald R. Zimmerman, Executive Director

SUBJECT: Content of Colorado River Storage Project Reservoirs, Runoff Forecast, Streamflow, and Power Generation

On February 29, 1984, conditions at the operating Storage Units were as follows:

Storage Reservoirs	w.s. elev. in feet	Reservoir Live Content in 1000 a.f.	Change in Content in 1000 a.f.
Fontenelle	6,479.21	161.9	- 2.1
Flaming Gorge	6,024.83	3,150.9	- 153.9
Navajo	6,060.66	1,352.3	- 106.5
Blue Mesa	7,460.62	374.6	- 116.0
Lake Powell	3,677.02	21,478.0	- 515.0
TOTAL		26,517.7	- 893.5

Storage in Lake Mead decreased 323,000 acre-feet during the month. On February 29, 1984, the reservoir contained 24,045,000 acre-feet at water surface elevation 1,207.67 feet (84.67 feet above rated head elevation 1,123 feet.)

Storage in Fontenelle, Flaming Gorge, Navajo, Blue Mesa, and Lake Powell Reservoirs decreased during the month a total of 893,500 acre-feet.

March 1, 1984 Runoff Forecast

Colorado River Runoff Forecast April-July

Reservoir	Projected Inflow (acre-feet)	Percent 1961-1980 Average
Fontenelle	905,000	104
Flaming Gorge	1,450,000	116
Blue Mesa	1,100,000	161
Navajo	850,000	117
Lake Powell	11,300,000	151

Streamflow

Streamflow at key stations in the Colorado River System for February 1984 was as follows:

	February Discharge (1000 a.f.)	Percent 71 year (1914-1984) Feb. Mean Discharge	(Oct.-Feb.) Discharge (1000 a.f.)	Percent 71 year (1914-1984) Cumulative Monthly (Oct.-Feb.) Discharge
Colorado River near Cisco, Utah	358.0		1,792.0	
Adjusted <u>a/</u>	233.4	144.6	1,422.0	151.1
Green River at Green River, Utah	358.7		1,820.0	
Adjusted <u>b/</u>	212.0	153.4	1,297.0	193.6
San Juan River near Bluff, Utah	159.6		585.4	
Adjusted <u>c/</u>	47.8	71.4	318.4	100.5
TOTAL	876.3 493.2	134.6	4,197.4 3,037.4	157.6
Colorado River at Lees Ferry <u>d/</u>	1,487.0		7,468.0	

a/ Adjusted for change in storage in Blue Mesa Reservoir. Storage began in Blue Mesa Reservoir October 27, 1965.

b/ Adjusted for change in storage in Flaming Gorge and Fontenelle Reservoirs. Storage began in Flaming Gorge Reservoir on November 1, 1962, and in Fontenelle Reservoir in October 1964.

c/ Adjusted for change in storage in Navajo Reservoir. Storage began June 27, 1962. Not adjusted for San Juan-Chama diversions.

d/ Exclusive of Paria River discharge.

Power Generation

Power generation at Colorado River Storage Project power plants for February 1984 was as follows:

	Generating Units Available	Megawatt Capability	Generation Month of February (Megawatt Hours)	Cumulative Monthly Generation (October - February) (Megawatt Hours)
Glen Canyon	7	1,007	693,215	3,665,752
Flaming Gorge	3	132	85,932	381,674
Blue Mesa	2	72	40,406	160,451
Morrow Point	2	146	52,305	195,772
Fontenelle	1	3	2,564	21,772
Crystal	1	28	19,523	95,381
	<u>16</u>	<u>1,388</u>	<u>893,945</u>	<u>4,520,802</u>