

4
ADDRESS REPLY TO
DISTRICT ENGINEER
CORPS OF ENGINEERS, U.S. ARMY
P.O. BOX 61
TULSA 2, OKLAHOMA

CORPS OF ENGINEERS, U.S. ARMY
OFFICE OF THE DISTRICT ENGINEER
TULSA DISTRICT
AIRCRAFT ASSEMBLY PLANT NO. 3
TULSA, OKLAHOMA

REFER TO FILE NO. SWP GH

11 July 1950

Mr. Don McBride
Room 362
Senate Office Building
Washington, D. C.

Dear Mr. McBride:

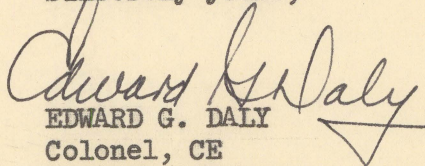
Reference is made to your request by telephone on 7 July 1950 for information regarding the backwater effects of Denison and Eufaula Reservoirs.

There are inclosed prints showing the original and anticipated future backwater conditions for the Washita River above Denison Reservoir, and for the Canadian and North Canadian Rivers above the authorized Eufaula Reservoir. As shown on these prints, the estimated limits of future backwater effects upstream from the Denison and Eufaula Reservoirs are as follows: 13 miles above Durwood on the Washita River; 15 miles below Calvin on the Canadian River; and 10 miles below the Okmulgee-McIntosh County line on the North Canadian River. These conditions may reasonably be expected 50 years after construction of the projects, provided that no additional reservoirs or other improvements are built upstream during the period. As an example of the effects of additional improvements, studies indicate that construction of Sanford Reservoir on the Canadian River would reduce sediment deposits in Eufaula Reservoir by about one-third, which would decrease the upstream extent of backwater effects. The future backwater effects are expected to become stabilized in 50 years, after which inflowing sediment would be carried well down into the reservoir or would be sluiced entirely through it.

In your study of the Washita River profile, it should be noted that high water in the vicinity of Dougherty flows on a slope much steeper than in the river above and below this point. This is caused by the restricted valley through the Arbuckle Mountains, and results in high stream velocities. It is inconceivable that backwater effects of Denison Reservoir could rise through this restriction, or that velocities during high water would allow sediment to deposit in this area.

It is hoped that these profiles will serve your present needs. Should further information be needed, do not hesitate to call upon me.

Sincerely yours,


EDWARD G. DALY
Colonel, CE
District Engineer

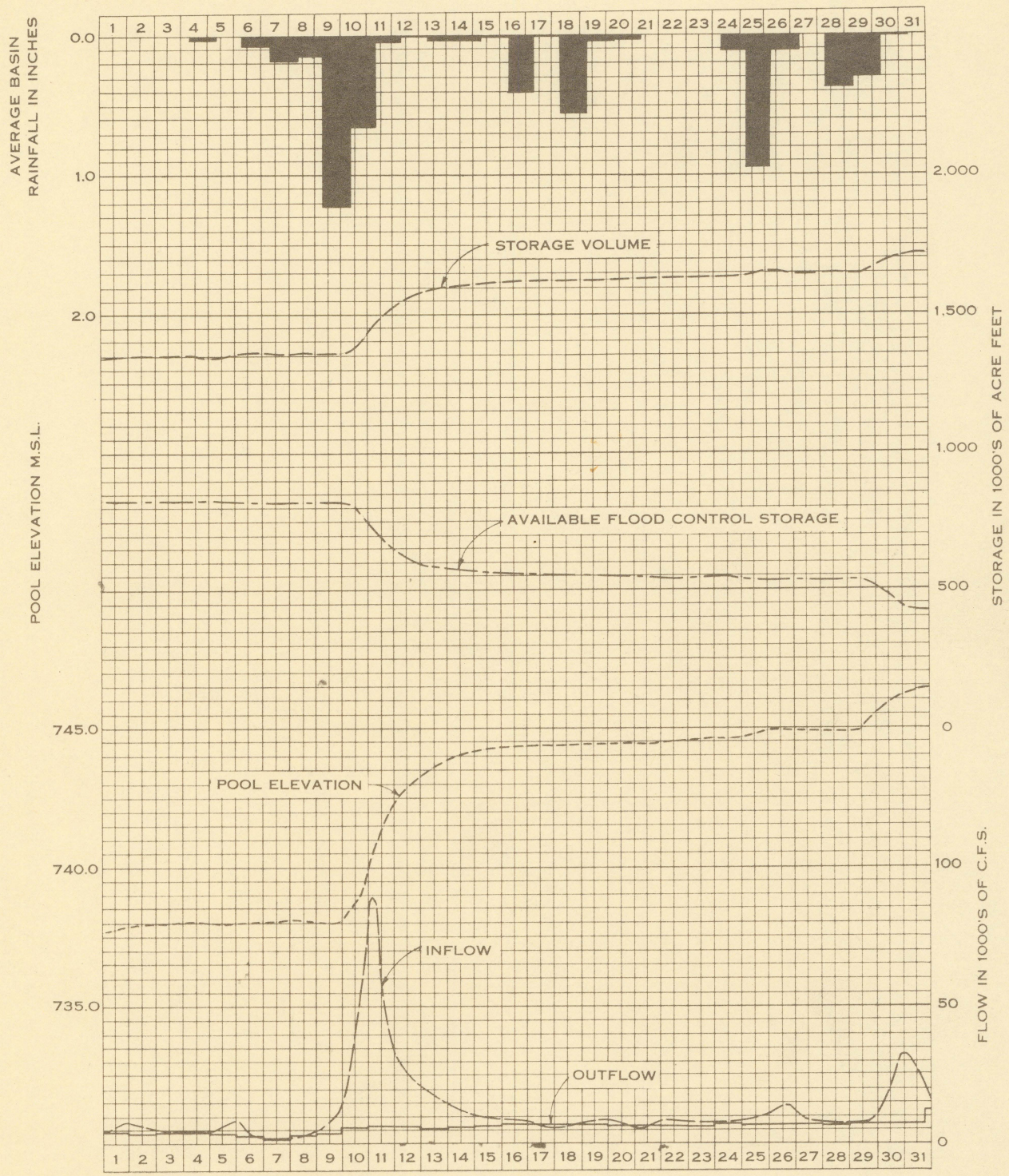
- 3 Incl
1. Profile of Washita R.
2. " " Canadian R.
3. " " N. Canadian R.

4

July 1950

CORPS OF ENGINEERS

U.S. ARMY



MONTH OF MAY 1950

MONTHLY RESERVOIR OPERATIONS

	ELEVATION M.S.L.	GROSS STORAGE ACRE FEET	PENSACOLA RESERVOIR D.A. 10,415 SQ. MI. SOUTHWESTERN DIVISION TULSA DISTRICT
POWER POOL	745.0	1,653,000	
FULL POOL	755.0	2,176,000	
GATE CAPACITY AT FULL POOL 525,000 C.F.S.			

Kerr, Maps

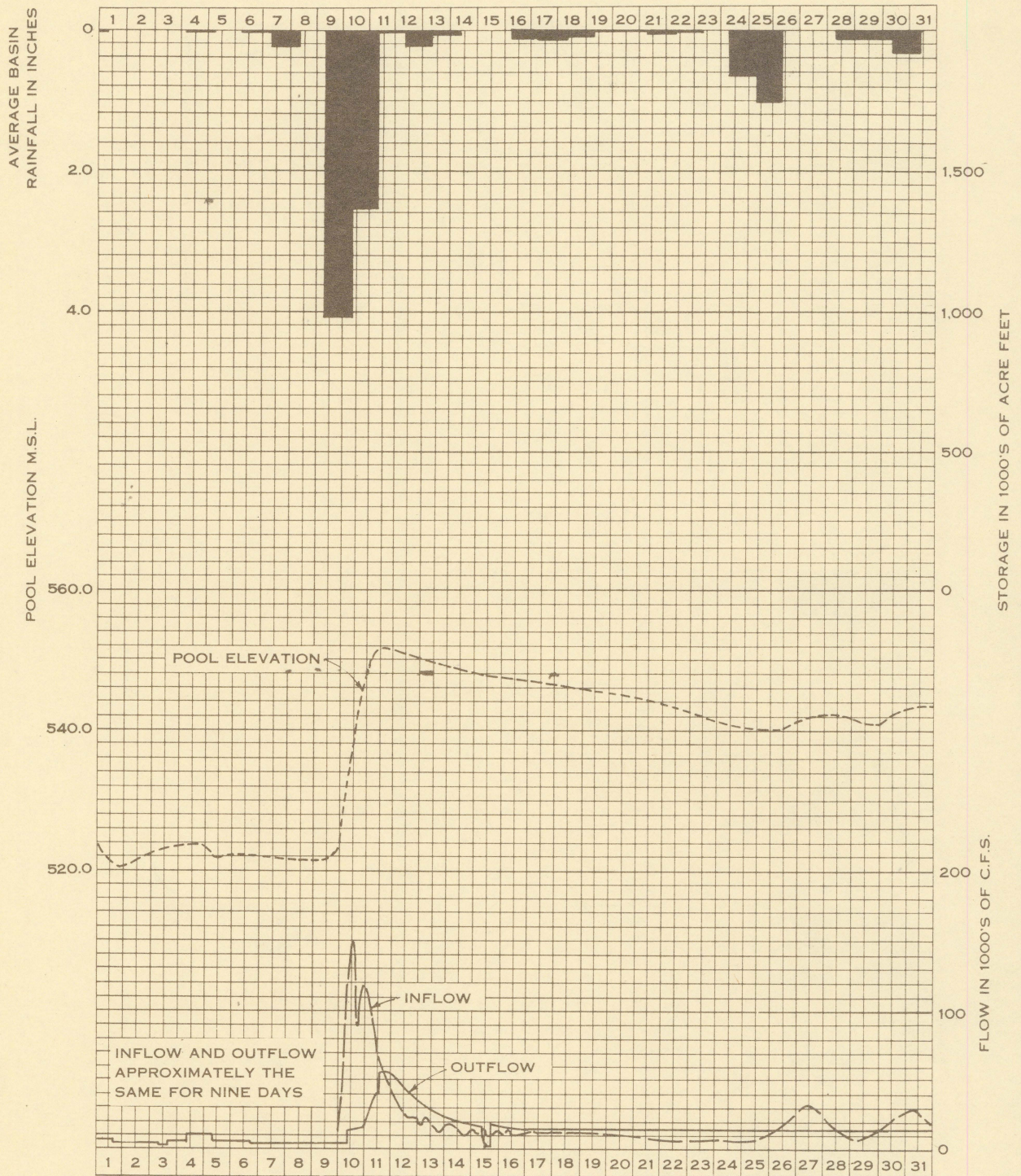
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Jul 3

July, 1950

CORPS OF ENGINEERS

U.S. ARMY



MONTH OF MAY 1950

MONTHLY RESERVOIR OPERATIONS

	ELEVATION M.S.L.	GROSS STORAGE ACRE FEET
POWER POOL	554.0	365,000
FULL POOL	582.0	1,287,000

FORT GIBSON RESERVOIR
D.A. 12,615 SQ. MI.
SOUTHWESTERN DIVISION
TULSA DISTRICT

