

RESERVOIR SEDIMENTATION
DATA SUMMARY

Pool #20

25-15

NAME OF RESERVOIR

DATA SHEET NO.

1. OWNER Dept of Army, C of E			2. RIVER Mississippi			3. STATE Missouri-Illinois		
4. SEC. 25 TWP. 62 N. RANGE 6 W. 5th			5. NEAREST TOWN Canton, Mo.			6. COUNTY Lewis-Adams		
7. STREAM BED ELEV. 454.0			8. TOP OF DAM ELEV. 480.0			9. SPILLWAY CREST ELEV. 480.0		
RESERVOIR	10. STORAGE ALLOCATION	11. ELEVATION TOP OF POOL	12. SURFACE AREA ACRES	13. STORAGE ACRE-FEET	14. ACCUMULATED ACRE-FEET	15. DATE STORAGE BEGAN		
	a. FLOOD CONTROL					June 9, 1936		
	b. POWER					16. DATE NORMAL OPER. BEGAN		
	c. WATER SUPPLY					May 15, 1939		
	d. IRRIGATION							
	e. CONSERVATION							
f. NAVIGATION		480.0	7950	89,850	89,850			
17. LENGTH OF RESERVOIR 27.4 MILES			AV. WIDTH OF RESERVOIR 0.59 MILES					
18. TOTAL DRAINAGE AREA 134,300 SQ. MI.		22. MEAN ANNUAL PRECIPITATION 32.1 INCHES						
19. NET SEDIMENT CONTRIBUTING AREA SQ. MI.		23. MEAN ANNUAL RUNOFF 6.88 INCHES						
20. LENGTH 1023.0 MILES		AV. WIDTH 131.3 MILES		24. MEAN ANNUAL RUNOFF 49,300,000 AC.-FT.				
21. MAX. ELEV.		MIN. ELEV.		25. CLIMATIC CLASSIFICATION Humid				
26. DATE OF SURVEY	27. PERIOD YEARS	28. ACCL. YEARS	29. TYPE OF SURVEY	30. NO. OF RANGES OR CONTOUR INT.	31. SURFACE AREA ACRES	32. CAPACITY ACRE-FEET	33. C/W RATIO AC.-FT. PER SQ. MI.	
Oct. 1937			Range	21	7950	89,850	--	
Nov. 1950	13.1	13.1	Range	21	7950	87,740	--	
26. DATE OF SURVEY	34. PERIOD ANNUAL PRECIPITATION	35. PERIOD WATER INFLOW ACRE-FEET			36. WATER INFL. TO DATE AC.-FT.			
		a. MEAN ANNUAL	b. MAX. ANNUAL	c. PERIOD TOTAL	a. MEAN ANNUAL	b. TOTAL TO DATE		
Nov. 1950	35.26	51,010,000	66,040,000	667,380,000	51,010,000	667,380,000		
26. DATE OF SURVEY	37. PERIOD SEDIMENT DEPOSITS ACRE-FEET			38. TOTAL SED. DEPOSITS TO DATE ACRE-FEET				
	a. PERIOD TOTAL	b. AV. ANNUAL	c. PER SQ. MI.-YR.	a. TOTAL TO DATE	b. AV. ANNUAL	c. PER SQ. MI.-YR.		
Nov. 1950	2110	161	--	2110	161	--		
26. DATE OF SURVEY	39. AV. DRY WGT. LBS. PER CU. FT.	40. SED. DEP. TONS PER SQ. MI.-YR.		41. STORAGE LOSS PCT.		42. SED. INFLOW PPM		
		a. PERIOD	b. TOTAL TO DATE	a. AV. ANNUAL	b. TO DATE	a. PERIOD	b. TO DATE	
Nov. 1950				0.18	2.35			

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET ABOVE, AND BELOW, CREST ELEVATION											
	PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION											

26. DATE OF SURVEY	44. REACH DESIGNATION PERCENT OF TOTAL ORIGINAL LENGTH OF RESERVOIR														
	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100	-105	-110	-115	-120	-125
	PERCENT OF TOTAL SEDIMENT LOCATED WITHIN REACH DESIGNATION														
Oct. 1937	0	0	0	0	0	0	0	0	0						
Nov. 1950	*	48	16	*	3	28	5	*	*	*					
				*	Scour										

45. Calendar RANGE IN RESERVOIR OPERATION				2/ Calendar			
YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW AC.-FT.	YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW AC.-FT.
1938	484.7	465.8	50.72	1948	487.3	475.6	41.20
1939	483.1	468.1	45.81	1949	482.1	468.8	35.95
1940	480.5	468.6	26.68	1950	484.6	468.1	48.43
1941	481.4	469.8	42.49				
1942	483.9	470.7	62.16				
1943	483.1	471.8	66.04				
1944	488.7	471.6	62.23				
1945	485.4	471.3	59.67				
1946	483.4	474.1	50.58				
1947	482.1	473.7	65.17				

46. ELEVATION-AREA-CAPACITY DATA								
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY

47. REMARKS AND REFERENCES Elevations refer to mean sea level, (1912 adjustment)

1/ Principal waterway through dam is a 20 ft. high movable gate section. Gate sill is at elevation 460.0, 6 ft. above lowest point of pre-construction stream bed. Gates operated to maintain 9.0 ft. navigation channel depths above dam, but pool elevation at the dam cannot exceed elevation 480.0. As river flows increase from minimum, gates are raised to provide additional waterway, and the pool at the dam is lowered until the gates are entirely out of the water at a flow that would produce tailwater elevation 475.5.

2/ Inflows are expressed in million acre-feet.

48. AGENCY SUPPLYING DATA Department of the Army
Rock Island District, Corps of Engineers

49. DATE 28 January 1952