

RESERVOIR SEDIMENTATION  
DATA SUMMARY

Pool #17

25-17

Corps of

NAME OF RESERVOIR

DATA SHEET NO.

DAM	1. OWNER <b>Dept of the Army, Engineers</b>			2. RIVER <b>Mississippi</b>			3. STATE <b>Illinois</b>											
	4. SEC. <b>22</b> TWP. <b>14N</b> RANGE <b>6W</b>			5. NEAREST TOWN <b>New Boston, Ill.</b>			6. COUNTY <b>Mercer (2)</b>											
	7. STREAM BED ELEV. <b>506.0</b>			8. TOP OF DAM ELEV. <b>536.0 (1)</b>			9. SPILLWAY CREST ELEV. <b>516.0</b>											
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										16. DATE NORMAL OPER. BEGAN  <b>August 1938</b>							
	b. POWER																	
	c. WATER SUPPLY																	
	d. IRRIGATION																	
	e. CONSERVATION										16. DATE NORMAL OPER. BEGAN  <b>May 14, 1939</b>							
	f. INACTIVE		<b>536.0</b>		<b>7580</b>													
17. LENGTH OF RESERVOIR		<b>20.0</b>		MILES		AV. WIDTH OF RESERVOIR		<b>0.59</b>		MILES								
WATERSHED	18. TOTAL DRAINAGE AREA			<b>99,600</b>			SQ. MI.			22. MEAN ANNUAL PRECIPITATION			<b>32.1</b>			INCHES		
	19. NET SEDIMENT CONTRIBUTING AREA						SQ. MI.			23. MEAN ANNUAL RUNOFF			<b>7.26</b>			INCHES		
	20. LENGTH			<b>929.1</b>			MILES			AV. WIDTH			<b>107.2</b>			MILES		
	24. MEAN ANNUAL RUNOFF												<b>38,600,000</b>			AC.-FT.		
	21. MAX. ELEV.						MIN. ELEV.						25. CLIMATIC CLASSIFICATION			<b>Humid</b>		
SURVEY DATA	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. ML.			
	Aug. 1938		15.6		15.6		Range		26		7580		70,800		0.7			
	Mar. 1954						Range		26		7580		69,350		0.7			
	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					
	Aug. 1938				40,400,000		56,800,000		630,600,000		40,400,000		630,600,000					
	Mar. 1954																	
	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. ML.-YR.		a. TOTAL TO DATE		b. AV. ANNUAL		c. PER SQ. ML.-YR.					
	Aug. 1938		1450		93		.001		1450		93		.001					
Mar. 1954																		
26. DATE OF SURVEY		39. AV. DRY WGT. LBS. PER CU. FT.		40. SED. DEP. TONS PER SQ. ML.-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				

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														
Aug. 1938	0	0	0	0	0	0	0	0	0	0					
Mar. 1954	6	*	24	23	15	*	*	*	16	16					
		* - Scour													

45. RANGE IN RESERVOIR OPERATION							
WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW AC.-FT.	WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW AC.-FT.
See attached sheet.							

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) Non-Submersible earth dike elev. 613.5.  
 (2) Principal waterway through dam is a 20 ft. high movable gate section. Gate sills at elev. 583.0, 16 ft. above lowest point of pre-construction stream bed. Gates operated at to maintain a 9.0 ft. navigation channel depths above dam but pool elevation at the dam cannot exceed elev. 603.0. As river flows increase from minimum, gates are raised to provide additional waterway, until gates are entirely out of water at a flow that would produce tailwater elevation 603.0.

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

49. DATE 8 October 1954

Department of the Army

Corps of Engineers

POOL # 17

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45. Range in reservoir operation

<u>Water Year</u>	<u>Max. Elev.*</u>	<u>Min. Elev.*</u>	<u>Inflow Million Acre-Feet</u>
1939	536.3	533.0	18.6
1940	536.6	529.9	12.0
1941	540.7	529.6	18.0
1942	543.8	528.9	23.3
1943	542.1	533.0	26.2
1944	544.9	529.2	22.5
1945	543.3	532.5	21.4
1946	542.9	534.7	20.9
1947	544.2	530.5	21.9
1948	543.7	528.5	16.0
1949	539.2	530.5	13.4
1950	541.3	530.2	19.5
1951	546.6	529.3	25.0
1952	546.4	532.0	28.7
1953	538.8	528.6	21.4

\* - Calendar year.