

RESERVOIR SEDIMENTATION
DATA SUMMARY

Lake Calhoun

NAME OF RESERVOIR

25-3

DATA SHEET NO.

DAM	1. OWNER Lake Calhoun Assn., Inc.		2. RIVER Fitch Creek		3. STATE Illinois			
	4. SEC. 23 TWP. 13 N RANGE 4 E		5. NEAREST TOWN Galva		6. COUNTY Knox			
	7. STREAM BED ELEV. app. 700		8. TOP OF DAM ELEV. -		9. SPILLWAY CREST ELEV. 718.64^{1/}			
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					Sept. 1 1924		
	b. POWER							
	c. WATER SUPPLY					16. DATE NORMAL OPER. BEGAN		
	d. IRRIGATION							
	e. CONSERVATION	718.64 ^{1/}	50.2	424.7	424.7	Sept. 1 1924		
f. INACTIVE								
17. LENGTH OF RESERVOIR 0.61 MILES		AV. WIDTH OF RESERVOIR 0.12 MILES						
WATERSHED	18. TOTAL DRAINAGE AREA 13.1 SQ. MI.		22. MEAN ANNUAL PRECIPITATION 34.09 INCHES					
	19. NET SEDIMENT CONTRIBUTING AREA 13.0 SQ. MI.		23. MEAN ANNUAL RUNOFF INCHES					
	20. LENGTH 4.3 MILES	AV. WIDTH 3.0 MILES	24. MEAN ANNUAL RUNOFF AC.-FT.					
	21. MAX. ELEV. 860		MIN. ELEV. app. 700		25. CLIMATIC CLASSIFICATION Humid			
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. MI.
	Sept. 1, 1924	-	-	-	-	50.2	424.7	32.4
	Aug. 1, 1936	11.9	11.9	Range Detailed	10	50.2	273.0	20.8
	July 24, 1947	11.0	22.9	"	10	50.2	112.4	8.6
	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	d. MEAN ANNUAL	e. TOTAL TO DATE	
	Aug. 1, 1936	37.10 ^{2/}						
	July 24, 1947	33.93						
	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.-YEAR	d. TOTAL TO DATE	e. AV. ANNUAL	f. PER SQ. MI.-YEAR	
Aug. 1, 1936	151.7 ^{2/}	12.7	0.977	151.7	12.7	0.977		
July 24, 1947	160.7	14.6	1.12	312.4	13.6	1.05		
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. TOT. TO DATE	c. PERIOD	d. TOT. TO DATE	
Aug. 1, 1936		1190	1190	2.99	35.72			
July 24, 1947	56 (12)	1370	1280	3.20	73.56			

2/ Includes 2.8 ac. ft. of above-crest deposits submerged when spillway raised in 1946

3/ Year 1930 missing

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														

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

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

47. REMARKS AND REFERENCES
 1/ Spillway raised from 715.75 to 718.64 ft. in 1946. Original area and capacity at elevation 715.75 were 46.1 acres and 285.6 ac. ft. All sedimentation and storage loss data based on 1946 spillway elevation of 718.64.

Glymph, L.M., Jr., and V.H. Jones. Advance report on the sedimentation survey of Lake Calhoun, Galva, Illinois. U. S. Soil Conserv. Serv., SCS-SS-16, 9 pp., illus., processed. Washington, D. C. May 1937.

48. AGENCY SUPPLYING DATA Illinois State Water Survey
 Urbana, Illinois

49. DATE June 16, 1950