

RESERVOIR SEDIMENTATION  
DATA SUMMARY

Walton Club Lake

NAME OF RESERVOIR

24-50

DATA SHEET NO.

DAM	1. OWNER Litchfield Park Board				2. RIVER Long Branch		3. STATE Illinois									
	4. SEC. 9 TWP. 8N RANGE 5W			5. NEAREST TOWN Litchfield		6. COUNTY Montgomery										
	7. STREAM BED ELEV. 638			8. TOP OF DAM ELEV. 666		9. SPILLWAY CREST ELEV. 661.4										
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										1862					
	b. POWER															
	c. WATER SUPPLY		661		30.53		376.3		376.3		16. DATE NORMAL OPER. BEGAN					
	d. IRRIGATION															
	e. CONSERVATION															
	f. INACTIVE															
WATERSHED	17. LENGTH OF RESERVOIR 1.01				MILES		AV. WIDTH OF RESERVOIR 0.048		MILES							
	18. TOTAL DRAINAGE AREA 2.72				SQ. MI.		22. MEAN ANNUAL PRECIPITATION (45) 37.5		INCHES							
	19. NET SEDIMENT CONTRIBUTING AREA 2.67				SQ. MI.		23. MEAN ANNUAL RUNOFF (20-40) 9.5		INCHES							
	20. LENGTH 2.18		MILES		AV. WIDTH 1.25		MILES		24. MEAN ANNUAL RUNOFF 1381.4		AC.-FT.					
	21. MAX. ELEV. 688		MIN. ELEV. 638		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 <sub>w</sub> RATIO AC.-FT. PER SQ. MI.	
	July 1862 1959		97		97		DR		13		30.53 30.53		376.3 187.2		138.35 68.82	
	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			
	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			
	July 1959		189.2		1.95		0.73		189.2		1.95		0.73			
	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		a. PERIOD		b. TOT. TO DATE			
July 1959		48.4 (17)		769.5		769.5		0.5		50.3						

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
	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