

C-9

RESERVOIR SEDIMENTATION
DATA SUMMARY

Lake Springfield

24 - 6

NAME OF RESERVOIR

DATA SHEET NO.

DAM	1. OWNER City of Springfield			2. RIVER Sugar and Lick Creeks			3. STATE Illinois					
	4. SEC. 12 TWP. 15N RANGE 5W			5. NEAREST TOWN Springfield			6. COUNTY Sangamon					
	7. STREAM BED ELEV. app. 520			8. TOP OF DAM ELEV. -			9. SPILLWAY CREST ELEV. 560					
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					Jan. 1934						
	b. POWER											
	c. WATER SUPPLY	560	4,234.4	61,039	61,039	16. DATE NORMAL OPER. BEGAN						
	d. IRRIGATION											
	e. CONSERVATION											
	f. INACTIVE					Jan. 1934						
WATERSHED	17. LENGTH OF RESERVOIR 13.0 1/2			MILES			AV. WIDTH OF RESERVOIR 0.6			MILES		
	18. TOTAL DRAINAGE AREA 265			SQ. MI.			22. MEAN ANNUAL PRECIPITATION 36.45			INCHES		
	19. NET SEDIMENT CONTRIBUTING AREA 258			SQ. MI.			23. MEAN ANNUAL RUNOFF			INCHES		
	20. LENGTH 25			MILES			AV. WIDTH 10.6			MILES		
	21. MAX. ELEV.			MIN. ELEV.			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.				
	Jan. 1934	-	-	-	-	4,234.4	61,039	230				
	Aug. 1948	14.6	14.6	Range detailed	38	4,234.4	58,380	220				
	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. 1948	35.97										
	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	a. TOTAL TO DATE	b. AV. ANNUAL	c. PER SQ. MI.-YEAR					
	Aug. 1948	2,659	182	0.705	2,659	182	0.705					
	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					
Aug. 1948	43 (10)	660	660	0.30	4.36							

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/ Length of Reservoir = 13.0 miles
 Main body of lake = 6.1 miles
 Lick Creek arm = 3.5 miles
 Sugar Creek arm = 3.4 miles

48. AGENCY SUPPLYING DATA Illinois State Water Survey 49. DATE June 16, 1950