

**RESERVOIR SEDIMENT
DATA SUMMARY**

SCS-34 Rev. 6-62

Lake Decatur

NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

24- 4a

DATA SHEET NO.

DAM	1. OWNER Decatur Water Supply Co.		2. STREAM Sangamon River		3. STATE Illinois		
	4. SEC.	TWP.	RANGE		5. NEAREST TOWN Decatur		6. COUNTY Macon
	7. STREAM BED ELEVATION			8. TOP OF DAM ELEVATION		9. SPILLWAY CREST ELEV. 610 <u>1/</u>	
RESERVOIR	10. STORAGE ALLOCATION	11. ELEVATION TOP OF POOL	12. ORIGINAL SURFACE AREA ACRES	13. ORIGINAL CAPACITY ACRE-FEET	14. GROSS STORAGE ACRE-FEET	15. DATE STORAGE BEGAN	
	a. MULTIPLE USE					April 1922	
	b. FLOOD CONTROL						
	c. POWER						
	d. WATER SUPPLY	610 <u>1/</u>	2,805 <u>1/</u>	19,738 <u>1/</u>	19,738 <u>1/</u>	16. DATE NORMAL OPER. BEGAN	
	e. IRRIGATION						
	f. CONSERVATION						
	g. SEDIMENT						
	h. INACTIVE						
	17. LENGTH OF RESERVOIR			MILES	AV. WIDTH OF RESERVOIR		MILES
WATERSHED	18. TOTAL DRAINAGE AREA 906		SQ. MI.	22. MEAN ANNUAL PRECIPITATION		INCHES	
	19. NET SEDIMENT CONTRIBUTING AREA 901.5 <u>1/</u>		SQ. MI.	23. MEAN ANNUAL RUNOFF		INCHES	
	20. LENGTH	MILES	AV. WIDTH	MILES	24. MEAN ANNUAL RUNOFF AC.-F.T.		
	21. MAX. ELEV.		MIN. ELEV.		25. CLIMATIC CLASSIFICATION		
	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
April 1922	-	-	-	-	2,805	19,738	22
1936	14.2	14.2	DR	49	2,746	16,930	19
1946	10.0	24.2	DR	49	2,604	14,567	16
1956	10.0	34.2	DR	49	3,093	23,371 <u>1/</u>	26
1966	10.0	44.2	DR	36	3,093	22,340	25
SURVEY DATA	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
	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
	1936	2,808	198	.22	2,808	198	.22
	1946	2,363	236	.26	5,171	214	.24
	1956	771	77	.09	5,942	174	.19
	1966	1,031	103	.11	6,973	158	.18
	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. AN.	b. TOT. TO DATE	a. PERIOD	b. TOT. TO DATE
1936	-	192	192	1.00	14.23		
1946	-	224	205	1.08	26.19		
1956	-	141	186	.88	30.10		
1966	-	154	179	.80	35.33		

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/ Flood gates installed 1956 raising maximum water surface elevation to 615 ft. Capacity at 613 ft. (normal operating level increased to 23,371 ac. ft.).

48. AGENCY MAKING SURVEY

49. AGENCY SUPPLYING DATA Illinois State Water Survey

50. DATE Nov. 1967