

RESERVOIR SEDIMENTATION
DATA SUMMARY

Lake Staunton

24-40

NAME OF RESERVOIR

DATA SHEET NO.

DAM	1. OWNER City of Staunton		2. RIVER East Creek		3. STATE Illinois				
	4. SEC. 20 TWP. 7N RANGE 6W		5. NEAREST TOWN Staunton		6. COUNTY Macoupin				
	7. STREAM BED ELEV. 542		8. TOP OF DAM ELEV. 586		9. SPILLWAY CREST ELEV. 580				
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					1926			
	b. POWER								
	c. WATER SUPPLY	580	90	1248	1248	16. DATE NORMAL OPER. BEGAN			
	d. IRRIGATION								
	e. CONSERVATION								
	f. INACTIVE								
17. LENGTH OF RESERVOIR 1.31 MILES		AV. WIDTH OF RESERVOIR .107 MILES							
WATERSHED	18. TOTAL DRAINAGE AREA 3.68 SQ. MI.		22. MEAN ANNUAL PRECIPITATION 38 INCHES						
	19. NET SEDIMENT CONTRIBUTING AREA 3.54 SQ. MI.		23. MEAN ANNUAL RUNOFF 10.5 INCHES						
	20. LENGTH 3.2 MILES		AV. WIDTH 1.11 MILES		24. MEAN ANNUAL RUNOFF 1982 AC.-FT.				
	21. MAX. ELEV. 680		MIN. ELEV. 542		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.	
	July 1926	28	28	D	7	90	1248	339	
	1954						1140	310	
	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	
	July 1954		108	3.87	1.09	108	3.87	1.09	
	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 1954		28.1 (8)	667	667	.31	8.69			

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														
1954	14	13.5	12.0	11.5	11.0	8.5	10.0	11.0	5.5	3.0					

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
580	90.0	371	560	16.0	20			
576	71.5	250	556	7.5	5			
572	54.0	168						
568	40.0	95						
564	25.0	45						

47. REMARKS AND REFERENCES