

**RESERVOIR SEDIMENTATION
 DATA SUMMARY**

Lake Nashville

24-39

NAME OF RESERVOIR

DATA SHEET NO.

DAM	1. OWNER City of Nashville			2. RIVER Nashville Creek			3. STATE Illinois			
	4. LONG. 19 LAT. 2S RANGE 2W			5. NEAREST TOWN Nashville			6. COUNTY Washington			
	7. STREAM BED ELEV. 484			8. TOP OF DAM ELEV. 505			9. SPILLWAY CREST ELEV. 502			
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					1936				
	b. POWER									
	c. WATER SUPPLY	502	40	320	320	16. DATE NORMAL OPER. BEGAN				
	d. IRRIGATION									
	e. CONSERVATION									
	f. INACTIVE									
17. LENGTH OF RESERVOIR .701 MILES			AV. WIDTH OF RESERVOIR .0856 FEET							
WATERSHED	18. TOTAL DRAINAGE AREA 1.39 SQ. MI.			22. MEAN ANNUAL PRECIPITATION 40 INCHES						
	19. NET SEDIMENT CONTRIBUTING AREA 1.33 SQ. MI.			23. MEAN ANNUAL RUNOFF 11.5 INCHES						
	20. LENGTH 2.25 MILES		AV. WIDTH .591 MILES		24. MEAN ANNUAL RUNOFF 852 AQ.-FT.					
	21. MAX. ELEV. 555		MIN. ELEV. 484		25. CLIMATIC CLASSIFICATION Humid					
RESURVEY 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.		
	Aug. 1954	- 19	- 19	- D.R.	- 8	40 40	320 289	230 208		
	26. DATE OF SURVEY	34. PERIOD ANNUAL PRECIPITATION		35. PERIOD WATER INFLOW ACRE- FEET			36. WATER INFL. TO DATE AC.-FT.			
		a. PERIOD TOTAL		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
	Aug. 1954	31		1.65	1.19	31		1.65		1.19
	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	
Aug. 1954	35.3 (6)	913		913		0.51		9.77		

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	16.5	13.5	16.5	13.5	12.5	10.5	4.25	4.25	4.25	4.25					

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
502	40	94	492	12.5	11.5			
500	35	81	490	7.0	4.0			
498	30	55						
496	25	36						
494	19	22						

47. REMARKS AND REFERENCES