

RESERVOIR SEDIMENTATION
DATA SUMMARY

Nashville Reservoir

49-3

NAME OF RESERVOIR

DATA SHEET NO.

DAM	1. OWNER City of Nashville			2. RIVER Mine Creek			3. STATE Arkansas			
	4. SEC. 23&24 TWP. 9 S RANGE 27 W			5. NEAREST TOWN Nashville			6. COUNTY Howard			
	7. STREAM BED ELEV. 74 1/			8. TOP OF DAM ELEV. 103 1/			9. SPILLWAY CREST ELEV. 98 1/			
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					March 1931				
	b. POWER									
	c. WATER SUPPLY	98 1/	38.8	181	181	16. DATE NORMAL OPER. BEGAN				
	d. IRRIGATION									
	e. CONSERVATION									
	f. INACTIVE					March 1931				
17. LENGTH OF RESERVOIR 0.37 MILES			AV. WIDTH OF RESERVOIR 0.12 MILES							
WATERSHED	18. TOTAL DRAINAGE AREA 10.4 SQ. MI.			22. MEAN ANNUAL PRECIPITATION 53 * INCHES						
	19. NET SEDIMENT CONTRIBUTING AREA 10.3 SQ. MI.			23. MEAN ANNUAL RUNOFF INCHES						
	20. LENGTH 6.0 MILES		AV. WIDTH 0.6 MILES		24. MEAN ANNUAL RUNOFF AG.-FT.					
	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.		
	March 1931	-	-	-	-	38.8	181	17.4		
	July 1941	10.3	10.3	Range Recon.	5	34.9	128	12.3		
	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 1941	53	5.15	0.50	53	5.15	0.50			
	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 1941				2.85	29.28	-	-			

1/ Local datum.
* Estimated

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
 The sediment is chiefly gray to brown sandy silt.

48. AGENCY SUPPLYING DATA Region 4, Soil Conservation Service
U. S. Dept. of Agriculture
Fort Worth, Texas

49. DATE March 1951