

RESERVOIR SEDIMENTATION
DATA SUMMARY

Gayoso Lake
NAME OF RESERVOIR

15 - 16
DATA SHEET NO.

A7

DAM	1. OWNER E. L. Coscia				2. RIVER Unnamed Trib. of Mississippi River		3. STATE Mississippi	
	4. SEC. 36 TWP. 1S RANGE 8W			5. NEAREST TOWN Horn Lake		6. COUNTY DeSoto		
	7. STREAM BED ELEV. 86.0 *			8. TOP OF DAM ELEV. -		9. SPILLWAY CREST ELEV. 100 *		
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					Feb. 1942		
	b. POWER							
	c. WATER SUPPLY					16. DATE NORMAL OPER. BEGAN		
	d. IRRIGATION							
	e. CONSERVATION	100.0	9.56	58.7	58.7	Feb. 1942		
	f. INACTIVE							
WATERSHED	17. LENGTH OF RESERVOIR 0.2633 MILES				AV. WIDTH OF RESERVOIR 0.0567 MILES			
	18. TOTAL DRAINAGE AREA 0.2196 SQ. MI.		22. MEAN ANNUAL PRECIPITATION 49.47 INCHES					
	19. NET SEDIMENT CONTRIBUTING AREA 0.2047 SQ. MI.		23. MEAN ANNUAL RUNOFF - INCHES					
	20. LENGTH MILES		AV. WIDTH MILES		24. MEAN ANNUAL RUNOFF - AC.-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.
	Feb. 1942	-	-	-	-	9.56	58.7	267
	Feb. 1951	9.0	9.0	Range detailed	7	9.56	53.0	241
	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	
	Feb. 1951	56.45						
	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	
	Feb. 1951	5.76	0.640	3.13	5.76	0.640	3.13	
	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	
Feb. 1951	51.85 (3)	3,530	3,530	1.09	9.81			

* Assumed

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															
Region 2, Soil Conservation Service U. S. Dept. of Agriculture Spartanburg, South Carolina															
48. AGENCY SUPPLYING DATA										49. DATE <u>April 30, 1951</u>					