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55% A 13
10% 214

RESERVOIR SEDIMENTATION
DATA SUMMARY

Lay Reservoir

NAME OF RESERVOIR

12-4

DATA SHEET NO.

DAM	1. OWNER Alabama Power Company			2. RIVER Coosa River			3. STATE Alabama		
	4. SEC. TWP. RANGE		5. NEAREST TOWN 12 Mi. NE Clanton			6. COUNTY Chilton, Coosa, Shelby, Talladega			
	7. STREAM BED ELEV. 343			8. TOP OF DAM ELEV.			9. SPILLWAY CREST ELEV. 420 1/2		
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					Dec. 1913			
	b. POWER	420	6698	156,525	156,525				
	c. WATER SUPPLY								
	d. IRRIGATION								
	e. CONSERVATION								
	f. INACTIVE							April 1914	
WATERSHED	17. LENGTH OF RESERVOIR 24 MILES			18. AV. WIDTH OF RESERVOIR .38 MILES					
	19. TOTAL DRAINAGE AREA 9087 SQ. MI.			20. MEAN ANNUAL PRECIPITATION 54 INCHES					
	21. NET SEDIMENT CONTRIBUTING AREA 9076.5 SQ. MI.			22. MEAN ANNUAL RUNOFF INCHES					
	23. LENGTH 180 MILES		24. AV. WIDTH 50 MILES		25. MEAN ANNUAL RUNOFF 11,240,300 (19) AC.-FT.				
	26. MAX. ELEV. 2000		27. MIN. ELEV. 420		28. CLIMATIC CLASSIFICATION Humid				
SURVEY DATA	29. DATE OF SURVEY	30. PERIOD YEARS	31. ACCL. YEARS	32. TYPE OF SURVEY	33. NO. OF RANGES OR CONTOUR INT.	34. SURFACE AREA ACRES	35. CAPACITY ACRE- FEET	36. C/W RATIO AC.-FT. PER SQ. MI.	
	Dec. 1913	-	-	-	-	6698	156,525	17.2	
	May 1936	22.3	22.3	Range Detailed	153	6698	138,520	15.2	
	29. DATE OF SURVEY	30. PERIOD ANNUAL PRECIPITATION	31. PERIOD WATER INFLOW ACRE- FEET			32. WATER INFL. TO DATE AC.-FT.			
	May 1936		a. MEAN ANNUAL	b. MAX. ANNUAL	c. PERIOD TOTAL	a. MEAN ANNUAL	b. TOTAL TO DATE		
			11,240,300	18,505,320	250,658,690	11,240,300	250,658,690		
	29. DATE OF SURVEY	30. PERIOD SEDIMENT DEPOSITS ACRE- FEET			31. TOTAL SED. DEPOSITS TO DATE ACRE- FEET.				
	May 1936	a. PERIOD TOTAL	b. AV. ANNUAL	c. PER SQ. MI.-YEAR	a. TOTAL TO DATE	b. AV. ANNUAL	c. PER SQ. MI.-YEAR		
		18,005	807	.089	18005	807	.089		
	29. DATE OF SURVEY	30. AV. DRY WGT. LBS. PER CU. FT.	31. SED. DEP. TONS PER SQ. MI.-YR.		32. STORAGE LOSS PCT.		33. SED. INFLOW PPM		
May 1936		a. PERIOD	b. TOTAL TO DATE	a. AV. ANNUAL	b. TOT. TO DATE	a. PERIOD	b. TOT. TO DATE		
				.52	11.50				

1/ Local datum

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
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
 Barnes, Farrell F., Advance Report on the Sedimentation Survey of Lay Reservoir, Clanton, Alabama, Soil Conserv. Serv., SCS-SS-13, 13 pp., illus., processed, Washington, D. C., May 1937.

Region 2, Soil Conservation Service
 U. S. Dept. of Agriculture
 Spartanburg, South Carolina

48. AGENCY SUPPLYING DATA

49. DATE Sept. 27, 1950