

RESERVOIR SEDIMENTATION
DATA SUMMARY

Lancaster Reservoir

NAME OF RESERVOIR

7-2

DATA SHEET NO.

DAM	1. OWNER City of Lancaster			2. RIVER Turkey Quarter Cr.			3. STATE South Carolina		
	4. SEC. TWP. RANGE			5. NEAREST TOWN 1.7 Mi. SE Lancaster			6. COUNTY Lancaster		
	7. STREAM BED ELEV.			8. TOP OF DAM ELEV.			9. SPILLWAY CREST ELEV.		
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			
	d. FLOOD CONTROL					Feb. 1925			
	b. POWER								
	c. WATER SUPPLY		36.4	242	242	16. DATE NORMAL OPER. BEGAN			
	d. IRRIGATION								
	e. CONSERVATION								
	f. INACTIVE								
WATERSHED	17. LENGTH OF RESERVOIR 0.84 MILES			AV. WIDTH OF RESERVOIR 0.07 MILES					
	18. TOTAL DRAINAGE AREA 9.40 SQ. MI.			22. MEAN ANNUAL PRECIPITATION 44.81 INCHES					
	19. NET SEDIMENT CONTRIBUTING AREA 9.34 SQ. MI.			23. MEAN ANNUAL RUNOFF INCHES					
	20. LENGTH 7.8 MILES; AV. WIDTH 1.7 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.	
	Feb. 1925	-	-	-	-	36.4	242	25.7	
	June 1938	13.4	13.4	Range Detailed	9	35.1	190	20.2	
	26. DATE OF SURVEY	34. PERIOD ANNUAL PRECIPITATION		35. PERIOD WATER INFLOW ACRE- FEET			36. WATER INFL. TO DATE AC.-FT.		
	June 1938	43.45		a. MEAN ANNUAL	b. MAX. ANNUAL	c. PERIOD TOTAL	d. MEAN ANNUAL	e. TOTAL TO DATE	
	26. DATE OF SURVEY	37. PERIOD SEDIMENT DEPOSITS ACRE- FEET			38. TOTAL SED. DEPOSITS TO DATE ACRE- FEET.				
	June 1938	a. PERIOD TOTAL	b. AV. ANNUAL	c. PER SQ. MI.-YEAR	d. TOTAL TO DATE	e. AV. ANNUAL	f. PER SQ. MI.-YEAR		
	June 1938	52	3.9	0.417	52	3.9	0.417		
	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		
	June 1938	65.3 (8)	a. PERIOD	b. TOTAL TO DATE	a. AV. ANNUAL	b. TOT. TO DATE	c. PERIOD	d. TOT. TO DATE	
June 1938	65.3 (8)	593	593	1.61	21.49				

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
 Connaughton, M. P. and Hough, J. L. Advance report on the sedimentation survey of Lancaster reservoir, Lancaster, S. C. U. S. Soil Conserv. Serv., SCS-SS-36, 18 pp., illus., processed. Washington, D. C., September 1940.

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

48. AGENCY SUPPLYING DATA _____ 49. DATE October 1950