

RESERVOIR SEDIMENTATION
DATA SUMMARY

Ben P. Smith Pond

NAME OF RESERVOIR

15 - 23

DATA SHEET NO.

DAM	1. OWNER Ben P. Smith			2. RIVER Unnamed Trib. of Pigeon Roost Creek			3. STATE Mississippi					
	4. SEC. 24 TWP. 4S RANGE 3W			5. NEAREST TOWN Holly Springs			6. COUNTY Marshall					
	7. STREAM BED ELEV. 89.3 *			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										July 1947	
	b. POWER										16. DATE NORMAL OPER. BEGAN	
	c. WATER SUPPLY										July 1947	
	d. IRRIGATION											
	e. CONSERVATION		100.0		0.89		3.77		3.77			
	f. INACTIVE											
WATERSHED	17. LENGTH OF RESERVOIR 0.0606 MILES				AV. WIDTH OF RESERVOIR 0.0229 MILES							
	18. TOTAL DRAINAGE AREA 0.0278 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 49.47 INCHES							
	19. NET SEDIMENT CONTRIBUTING AREA 0.0264 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.			
	July 1947		-	-	-	-	0.89	3.77	136			
	March 1951		3.7	3.7	Range detailed	3	0.84	3.29	118			
	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				
	March 1951		60.26									
	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				
	March 1951		0.479 (0.518) 1/	0.129 (0.140)	4.89 (5.30)	0.479 (0.518)	0.129 (0.140)	4.89 (5.30)				
	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					
March 1951		67.58 (4)	7,200 (7,800)	7,200 (7,800)	3.43	12.7	- -					

* Assumed

1/ Above-crest deposits within original flow line.

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 April 30, 1951