

RESERVOIR SEDIMENTATION
DATA SUMMARY

Ben O. Pettis Pond
NAME OF RESERVOIR

15 - 17
DATA SHEET NO.

DAM	1. OWNER Ben O. Pettis			2. RIVER Unnamed Trib. of Tobiubby Creek		3. STATE Mississippi									
	4. SEC. 21 TWP. 7S RANGE LW			5. NEAREST TOWN Oxford		6. COUNTY Lafayette									
	7. STREAM BED ELEV. 93.4 *			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. 1916									
	b. POWER														
	c. WATER SUPPLY					16. DATE NORMAL OPER. BEGAN									
	d. IRRIGATION														
	e. CONSERVATION	100.0	0.51	1.63	1.63	Feb. 1916									
	f. INACTIVE														
WATERSHED	17. LENGTH OF RESERVOIR 0.0322 MILES			AV. WIDTH OF RESERVOIR 0.0248 MILES											
	18. TOTAL DRAINAGE AREA 0.0075 SQ. MI.			22. MEAN ANNUAL PRECIPITATION 49.47 INCHES											
	19. NET SEDIMENT CONTRIBUTING AREA 0.0067 SQ. MI.			23. MEAN ANNUAL RUNOFF - INCHES											
	20. LENGTH MILES AV. WIDTH MILES			24. MEAN ANNUAL RUNOFF - AG.-FT.											
	21. MAX. ELEV.		MIN. ELEV.		25. CLIMATIC CLASSIFICATION Humid										
	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 AG.-FT. PER SQ. MI.						
Feb. 1916		-	-	-	-	0.51	1.63	217							
Feb. 1951		35	35	Range detailed	3	0.49	1.07	143							
SURVEY DATA	26. DATE OF SURVEY		34. PERIOD ANNUAL PRECIPITATION		35. PERIOD WATER INFLOW ACRE- FEET			36. WATER INFL. TO DATE AG.-FT.							
			a. MEAN ANNUAL		b. MAX. ANNUAL		c. PERIOD TOTAL		a. MEAN ANNUAL	b. TOTAL TO DATE					
	Feb. 1951		52.05												
	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		0.563 (0.569) <u>1/</u>		0.016 (0.016)		2.39 (2.39)		0.563 (0.569)		0.016 (0.016)		2.39 (2.39)			
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		c. PERIOD		d. TOT. TO DATE		
Feb. 1951		58.72 (3)		3,060 (3,060)		3,060 (3,060)		0.98		34.5		-		-	

* 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
	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

48. AGENCY SUPPLYING DATA Spartanburg, South Carolina 49. DATE April 30, 1951