

RESERVOIR SEDIMENT DATA SUMMARY

U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

SCS-34 Rev. 6-66

Andrew Smith Pond  
NAME OF RESERVOIR

15-29b

DATA SHEET NO.

DAM	1. OWNER <b>Andrew Smith</b>				2. STREAM <b>Trib. Jones' Creek</b>				3. STATE <b>Mississippi</b>			
	4. SEC. <b>9</b>		TWP. <b>5-S</b>		RANGE <b>3-W</b>		5. NEAREST P. O. <b>Holly Springs</b>				6. COUNTY <b>Marshall</b>	
	7. LAT. ' ' " LONG. ' ' "				8. TOP OF DAM ELEVATION <b>111.0*</b>				9. SPILLWAY CREST ELEV. <b>106.8</b>			
RESERVOIR	10. STORAGE ALLOCATION		11. ELEVATION TOP OF POOL		12. ORIGINAL SURFACE AREA, ACRES		13. ORIGINAL CAPACITY, ACRE-FEET		14. GROSS STORAGE, ACRE-FEET		15. DATE STORAGE BEGAN	
	a. FLOOD CONTROL		<b>106.8</b>		<b>10.03</b>		<b>70.1</b>		<b>70.1</b>		<b>Nov. 1953</b>	
	b. MULTIPLE USE											
	c. POWER											
	d. WATER SUPPLY										16. DATE NORMAL OPER. BEGAN	
	e. IRRIGATION											
	f. CONSERVATION		<b>100.0</b>		<b>4.62</b>		<b>22.7</b>		<b>22.7</b>			
g. INACTIVE												
WATERSHED	17. LENGTH OF RESERVOIR <b>0.29</b> MILES				AV. WIDTH OF RESERVOIR <b>0.051</b> MILES							
	18. TOTAL DRAINAGE AREA <b>0.327</b> SQ. MI.				22. MEAN ANNUAL PRECIPITATION ( <b>47 yr</b> ) <b>52.84</b> INCHES							
	19. NET SEDIMENT CONTRIBUTING AREA <b>0.30</b> SQ. MI.				23. MEAN ANNUAL RUNOFF ( <b>10 yr</b> ) <b>10.60</b> INCHES							
	20. LENGTH <b>0.83</b> MILES		AV. WIDTH <b>0.39</b> MILES		24. MEAN ANNUAL RUNOFF <b>185</b> AC.-FT.							
	21. MAX. ELEV.				MIN. ELEV. <b>87.2</b>				25. ANNUAL TEMP.: MEAN RANGE			
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/I. RATIO, AC.-FT. PER AC.-FT.		
	11-17-53		-	-	D	23 ranges	10.03 ( 4.62)	70.1 (22.7) <sup>3/</sup> 65.4		.379 (.123) .354		
	5-22-56		2.5	2.5	D	23 ranges		(18.85) 63.27		(.102) .342		
	9-2-59		3.3	5.8	D	23 ranges		(17.83)		(.096)		
	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		
26. DATE OF SURVEY		37. PERIOD CAPACITY LOSS, 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					
5-56		4.70 (3.85)	1.88 (1.54)	6.27 (5.13)	4.70 (3.85)	1.88 (1.54)	6.27 (5.13)					
9-59		2.13 (1.02)	.65 (.31)	2.15 (1.03)	6.83 (4.87)	1.18 (.84)	3.93 (2.80)					
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. ANN.	b. TOT. TO DATE	a. PERIOD	b. TOT. TO DATE				
5-56		90*	12,290 (10,056)	12,290 (10,056)	2.68 (6.78)	6.70 (16.96)						
9-59		90*	4,217 ( 2,020)	7,704 ( 5,489)	1.68 (3.70)	9.74 (21.45)						

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET BELOW, AND ABOVE, 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

1/ At Holly Springs 2N Mississippi  
 2/ From 1130-acre watershed in vicinity  
 3/ Numbers in parentheses pertain to conservation pool only.  
 \* Assumed

48. AGENCY MAKING SURVEY    ARS  
 49. AGENCY SUPPLYING DATA    ARS

50. DATE December 1975

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DAM	1. OWNER			2. STREAM			3. STATE								
	4. SEC.		TWP.		RANGE		5. NEAREST P. O.		6. COUNTY						
	7. LAT. ° ' "		LONG. ° ' "		8. TOP OF DAM ELEVATION			9. SPILLWAY CREST ELEV.							
RESERVOIR	10. STORAGE ALLOCATION		11. ELEVATION TOP OF POOL		12. ORIGINAL SURFACE AREA, ACRES		13. ORIGINAL CAPACITY, ACRE-FEET		14. GROSS STORAGE, ACRE-FEET		15. DATE STORAGE BEGAN				
	a. FLOOD CONTROL														
	b. MULTIPLE USE														
	c. POWER														
	d. WATER SUPPLY										16. DATE NORMAL OPER. BEGAN				
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WATERSHED	17. LENGTH OF RESERVOIR				MILES		AV. WIDTH OF RESERVOIR				MILES				
	18. TOTAL DRAINAGE AREA					SQ. MI.		22. MEAN ANNUAL PRECIPITATION					INCHES		
	19. NET SEDIMENT CONTRIBUTING AREA					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. ANNUAL TEMP.: MEAN						RANGE		
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/I. RATIO, AC.-FT. PER AC.-FT.		
	11-18-63		4.2	10.0	D		23 ranges				60.87 (16.59)		.329 (.090)		
	12-75		12.1	22.1	D		23 ranges				53.41 (13.37)		.289 (.072)		
	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		
	26. DATE OF SURVEY		37. PERIOD CAPACITY LOSS, 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		
	11-63		2.40 (1.24)		.57 (.30)		1.90 (1.00)		9.23 (6.11)		.92 (.61)		3.08 (2.04)		
	12-75		7.46 (3.22)		.62 (.27)		2.06 (.89)		16.69 (9.33)		.76 (.42)		2.52 (1.41)		
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. ANN.		b. TOT. TO DATE		a. PERIOD		b. TOT. TO DATE	
11-63		90*		3,734 (1,929)		6,037 (3,999)		1.31 (2.62)		13.17 (26.92)					
12-75		79		2,927 (1,123)		4,336 (2,426)		1.08 (1.85)		23.81 (41.10)					

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	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															
48. AGENCY MAKING SURVEY    ARS				49. AGENCY SUPPLYING DATA    ARS											
						50. DATE <u>December 1975</u>									