

RESERVOIR SEDIMENT  
DATA SUMMARYU. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

SCS-34 Rev. 6-66

W. W. Murphy Pond

NAME OF RESERVOIR

15-27b

DATA SHEET NO.

DAM	1. OWNER <u>W. W. Murphy</u>			2. STREAM <u>Trib, Jones' Creek</u>			3. STATE <u>Mississippi</u>							
	4. SEC. <u>8</u> TWP. <u>%-S</u> RANGE <u>3-W</u>			5. NEAREST P. O. <u>Holly Springs</u>			6. COUNTY <u>Marshall</u>							
	7. LAT. ° ' " LONG. ° ' "			8. TOP OF DAM ELEVATION <u>104*</u>			9. SPILLWAY CREST ELEV. <u>98.6</u>							
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		98.6		7.50		61.8		61.8		Nov. 1953			
	b. MULTIPLE USE													
	c. POWER													
	d. WATER SUPPLY													
	e. IRRIGATION										16. DATE NORMAL OPER. BEGAN			
	f. CONSERVATION		90.4		4.57		22.7		22.7					
g. INACTIVE														
WATERSHED	17. LENGTH OF RESERVOIR <u>0.35</u> MILES				AV. WIDTH OF RESERVOIR <u>0.033</u> MILES									
	18. TOTAL DRAINAGE AREA <u>0.208</u> SQ. MI.				22. MEAN ANNUAL PRECIPITATION ( <u>47 yr</u> ) <u>53.84</u> INCHES									
	19. NET SEDIMENT CONTRIBUTING AREA <u>0.20</u> SQ. MI.				23. MEAN ANNUAL RUNOFF ( <u>10 yr</u> ) <u>10.60</u> INCHES									
	20. LENGTH <u>0.75</u> MILES				AV. WIDTH <u>0.26</u> MILES				24. MEAN ANNUAL RUNOFF <u>117</u> 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.	
	11-18-53		-	-	D		23 ranges		7.50 (4.57)		61.8 (22.7) <sup>3/</sup>		.528 (.194)	
	5-3-56		2.5	2.5	D		23 ranges				58.26 (19.74)		.498 (.169)	
	9-10-59		3.3	5.8	D		23 ranges				56.14 (17.86)		.480 (.153)	
	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						
	5-3-56		3.54 (2.96)	1.42 (1.18)	7.08 (5.92)	3.54 (2.96)	1.42 (1.18)	7.08 (5.92)						
9-10-59		2.12 (1.88)	.64 (.57)	3.21 (2.85)	5.66 (4.84)	.98 (.83)	4.88 (4.17)							
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		
5-3-56		90*		13,878 (11,604)		13,878 (11,604)		2.30 (5.20)		5.73 (13.04)				
9-10-59		90*		6,296 (5,584)		9,566 (8,174)		1.59 (3.66)		9.16 (21.32)				

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															
<p>1/ At Holly Springs 2N, Mississippi</p> <p>2/ From 1130-acre watershed in vicinity</p> <p>3/ Numbers in parentheses pertain to conservation pool only</p> <p>* Assumed</p>															
48. AGENCY MAKING SURVEY    ARS															
49. AGENCY SUPPLYING DATA    ARS															
50. DATE    December 1975															

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	4. SEC.		TWP.		RANGE		5. NEAREST P.O.			6. COUNTY								
	7. LAT. ° ' "			" LONG. ° ' "			8. TOP OF DAM ELEVATION			9. SPILLWAY CREST ELEV.								
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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.-F.T.		
	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.					
	11-6-63		4.2	10.0	D		23 ranges				53.68 (15.79)		.459 (.135)					
	12-75		12.1	22.1	D		23 ranges				49.88 (13.36)		.426 (.114)					
	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					
	11-6-63		2.46 (2.07)		.59 (.49)		2.95 (2.45)		8.12 (6.91)		.81 (.69)		4.06 (3.46)					
	12-75		3.80 (2.43)		.31 (.20)		1.55 (1.00)		11.92 (9.34)		.54 (.42)		2.70 (2.11)					
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						
11-6-63		90*		5,741 (4,830)		7,958 (6,782)		1.31 (3.04)		13.14 (30.44)								
12-75		77		1,683 ( 876)		4,528 (3,539)		.87 (1.85)		19.29 (41.15)								

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