

RESERVOIR SEDIMENT
DATA SUMMARY

SCS-34 Rev. 6-66

Power Line Dam
NAME OF RESERVOIR

15-28b
DATA SHEET NO.

DAM	1. OWNER <u>R. B. Anderson</u>			2. STREAM <u>East Goose</u>			3. STATE <u>Mississippi</u>					
	4. SEC. <u>36</u> TWP. <u>8S</u> RANGE <u>4W</u>			5. NEAREST P. O. (<u>Oxford</u>)			6. COUNTY <u>Lafayette</u>					
	7. LAT. " " " " " " " " " "			8. TOP OF DAM ELEVATION <u>407.0</u>			9. SPILLWAY CREST ELEV. <u>402.5</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		<u>402.55</u>		<u>13.58</u>		<u>90.02</u>		<u>90.02</u>		<u>4-53</u>	
	b. MULTIPLE USE											
	c. POWER											
	d. WATER SUPPLY										16. DATE NORMAL OPER. BEGAN	
	e. IRRIGATION											
	f. CONSERVATION		<u>396.55</u>		<u>6.0</u>		<u>30.54</u>		<u>30.54</u>			
g. INACTIVE										<u>4-53</u>		
WATERSHED	17. LENGTH OF RESERVOIR _____ MILES, AV. WIDTH OF RESERVOIR <u>0.066</u> MILES											
	18. TOTAL DRAINAGE AREA <u>22^{1/2}</u> SQ. MI.				22. MEAN ANNUAL PRECIPITATION <u>43.1 (47)^{2/2}</u> INCHES							
	19. NET SEDIMENT CONTRIBUTING AREA <u>.477</u> SQ. MI.				23. MEAN ANNUAL RUNOFF <u>5.0*</u> INCHES							
	20. LENGTH <u>1.02</u> MILES		AV. WIDTH <u>0.55</u> MILES		24. MEAN ANNUAL RUNOFF <u>130*</u> AC.-FT.							
	21. MAX. ELEV. _____		MIN. ELEV. _____		25. ANNUAL TEMP: MEAN RANGE <u>Humid</u>							
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.			
	<u>4-53</u>		<u>-</u>	<u>-</u>	<u>Range</u>	<u>26</u>	<u>13.58 (6.0)</u>	<u>90.02 (30.54)^{3/2}</u>				
	<u>10-58</u>		<u>5.5</u>	<u>5.5</u>	<u>Range</u>	<u>20</u>		<u>75.55 (21.34)</u>				
	<u>6-60</u>		<u>1.66</u>	<u>7.16</u>	<u>Range</u>	<u>26</u>		<u>72.48 (20.07)</u>				
	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				
	<u>10-58</u>		<u>14.47 (9.20)</u>	<u>2.63 (1.67)</u>	<u>5.51 (3.50)</u>	<u>14.47 (9.20)</u>	<u>2.63 (1.67)</u>	<u>5.51 (3.50)</u>				
<u>6-60</u>		<u>3.07 (1.27)</u>	<u>1.84 (.77)</u>	<u>3.88 (1.60)</u>	<u>17.54 (10.47)</u>	<u>2.45 (1.46)</u>	<u>5.14 (3.07)</u>					
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				
<u>10-58</u>		<u>70*</u>	<u>8400 (5336)</u>	<u>8400 (5336)</u>	<u>2.92 (5.47)</u>	<u>16.07 (30.12)</u>						
<u>6-60</u>		<u>70*</u>	<u>5911 (2445)</u>	<u>7836 (4681)</u>	<u>2.72 (4.78)</u>	<u>19.48 (34.28)</u>						

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
<u>April 1953</u>								
385		0.96	400		59.62			
387		2.53	402.55 ^{2/}		90.02			
390		6.55						
393		13.54						
396.55 ^{1/}	6.0	30.54						

47. REMARKS AND REFERENCES
1/ Includes two prongs
2/ At University, Mississippi
3/ Numbers in parentheses pertain to conservation pool only.
* Assumed or estimated.

48. AGENCY MAKING SURVEY ARS
49. AGENCY SUPPLYING DATA ARS
50. DATE January 1976

RESERVOIR SEDIMENT
DATA SUMMARY

SCS-34 Rev. 6-66

(Sheet 2 of 2)

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

Power Line Dam
NAME OF RESERVOIR

15-28b

DATA SHEET NO.

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										
	e. IRRIGATION																				
	f. CONSERVATION																				
	g. INACTIVE																				
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.						
	8-62		2.15		9.31		Range		26				71.98 (19.40)								
	9-67		5.0		14.31		Range		26				71.07 (19.21)								
	1-76		8.4		22.8		D		26				67.90 (17.37)								
	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								
SURVEY DATA	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								
	8-62		3.07 (1.27)		1.84 (.77)		3.88 (1.60)		17.54 (10.47)		2.45 (1.46)		5.14 (3.07)								
	9-67		0.91 (0.19)		.18 (.04)		.38 (.08)		18.95 (11.33)		1.32 (.79)		2.78 (1.66)								
	1-76		3.17 (1.84)		.38 (.22)		.79 (.46)		22.12 (13.17)		.97 (.58)		2.03 (1.21)								
SURVEY DATA	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						
	8-62		70*		743 (996)		6190 (3827)		2.16 (3.93)		20.04 (36.48)										
	9-67		70*		582 (121)		4238 (2531)		1.47 (2.59)		21.05 (37.10)										
	1-76		75		1292 (750)		3316 (1977)		1.03 (1.90)		24.57 (43.12)										

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															
48. AGENCY MAKING SURVEY ARS															
49. AGENCY SUPPLYING DATA ARS															
50. DATE <u>January 1976</u>															