

RESERVOIR SEDIMENTATION  
DATA SUMMARY

Lake Harris  
NAME OF RESERVOIR

13-2  
DATA SHEET NO.

DAM	1. OWNER <b>City of Tuscaloosa</b>			2. RIVER <b>Yellow Creek</b>			3. STATE <b>Alabama</b>									
	4. SEC. <b>27</b> TWP. <b>20S</b> RANGE <b>9W</b>			5. NEAREST TOWN <b>Tuscaloosa</b>			6. COUNTY <b>Tuscaloosa</b>									
	7. STREAM BED ELEV. <b>137</b>			8. TOP OF DAM ELEV.			9. SPILLWAY CREST ELEV. <b>202 1/2</b>									
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. 1929					
	b. POWER															
	c. WATER SUPPLY		<b>202</b>		<b>149</b>		<b>2421</b>		<b>2421</b>		16. DATE NORMAL OPER. BEGAN					
	d. IRRIGATION															
	e. CONSERVATION															
	f. INACTIVE										Feb. 1929					
WATERSHED	17. LENGTH OF RESERVOIR <b>3.5</b> MILES				AV. WIDTH OF RESERVOIR <b>.09</b> MILES											
	18. TOTAL DRAINAGE AREA <b>30.0</b> SQ. MI.				22. MEAN ANNUAL PRECIPITATION <b>51.06</b> INCHES											
	19. NET SEDIMENT CONTRIBUTING AREA <b>29.8</b> SQ. MI.				23. MEAN ANNUAL RUNOFF INCHES											
	20. LENGTH MILES		AV. WIDTH MILES		24. MEAN ANNUAL RUNOFF AG.-FT.											
	21. MAX. ELEV. <b>640</b>		MIN. ELEV. <b>137</b>		25. CLIMATIC CLASSIFICATION <b>Humid</b>											
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.	
	Feb. 1929		-		-		-		-		149		2421		80.7	
	Nov. 1935		6.75		6.75		Range Detailed		19		149		2373		79.1	
	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 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			
	Nov. 1935		47.7		7.06		.237		47.7		7.06		.237			
	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		
Nov. 1935								0.29		1.97						

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  
1/ Including 12" flashboards.  
  
 Eargle, D. Hoyer, Advance report on the sedimentation survey of Lake Harris, Tuscaloosa, Alabama, Soil Conserv. Serv. SCS-SS-4, 7 pp., illus., processed, Washington, D. C., May 1936.  
  
 Region 2, Soil Conservation Service  
 U. S. Dept. of Agriculture  
 Spartanburg, South Carolina

48. AGENCY SUPPLYING DATA  
 49. DATE Sept. 27, 1950

RESERVOIR SEDIMENTATION  
DATA SUMMARY

Lake Harris

NAME OF RESERVOIR

13-24  
DATA SHEET NO.

DAM	1. OWNER <u>City of Tuscaloosa</u>		2. RIVER <u>Yellow Creek</u>		3. STATE <u>Alabama</u>			
	4. SEC. <u>27 TWP. 20S RANGE 9W</u>		5. NEAREST TOWN <u>Tuscaloosa</u>		6. COUNTY <u>Tuscaloosa</u>			
	7. STREAM BED ELEV. <u>137</u>		8. TOP OF DAM ELEV.		9. SPILLWAY CREST ELEV. <u>205.2</u>			
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 1929		
	b. POWER							
	c. WATER SUPPLY	<u>(287.2) 1/2</u>	<u>(129)</u>	<u>(2742)</u>	<u>(2742)</u>	16. DATE NORMAL OPER. BEGAN		
	d. IRRIGATION					Feb. 1929		
	e. CONSERVATION							
	f. INACTIVE							
17. LENGTH OF RESERVOIR <u>3.5</u> MILES		AV. WIDTH OF RESERVOIR <u>0.09</u> MILES						
WATERSHED	18. TOTAL DRAINAGE AREA <u>30.0</u> SQ. MI.		22. MEAN ANNUAL PRECIPITATION <u>53</u> INCHES					
	19. NET SEDIMENT CONTRIBUTING AREA <u>29.8</u> SQ. MI.		23. MEAN ANNUAL RUNOFF <u>25</u> INCHES					
	20. LENGTH <u>12</u> MILES AV. WIDTH <u>2.5</u> MILES		24. MEAN ANNUAL RUNOFF <u>39900</u> AC.-FT.					
	21. MAX. ELEV. <u>640</u> MIN. ELEV. <u>137</u>		25. CLIMATIC CLASSIFICATION <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/W RATIO AC.-FT. PER SQ. MI.
	Feb. 1929	-	-	-	-	<u>149 2/</u>	<u>2421 2/</u>	<u>80.7</u>
	Nov. 1935	<u>6.75</u>	<u>6.75</u>	Range (D)	<u>19</u>	<u>149 2/</u>	<u>2373 2/</u>	<u>79.1</u>
	Aug. 1953	<u>17.75</u>	<u>24.50</u>	Range (D)	<u>19</u>	<u>151 1/7</u>	<u>2636 1/</u>	<u>87.9</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 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
	Nov. 1935		<u>48</u>	<u>7.11</u>	<u>0.239</u>	<u>48</u>	<u>7.11</u>	<u>0.239</u>
Aug. 1953		<u>58</u>	<u>3.27</u>	<u>0.110</u>	<u>106</u>	<u>4.33</u>	<u>0.145</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. ANNUAL	b. TOT. TO DATE	a. PERIOD	b. TOT. TO DATE
Nov. 1935		-	-	-	<u>0.29</u>	<u>1.98</u>	-	-
Aug. 1953		<u>59.9 (12)</u>	<u>144</u>	<u>189</u>	<u>0.16 2/</u>	<u>3.87 2/</u>	-	-

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

1/ With 5-foot flashboards added in 1947. 2/ Based on original capacity with 5 foot flashboards.  
 2/ Originally provided with 1-foot flashboards.

Eargle, D. Hoy, Advance report on the sedimentation survey of Lake Harris, Tuscaloosa, Alabama, Soil Conservation Service, SCS-SS-4, 7 pp., illus. processed., Washington, D. C. May 1936

Noll, John J., Sedimentation in Lake Harris, Tuscaloosa County, Alabama. Soil Conserv. Ser., Spartanburg, S.C. 1954. Unpublished

48. AGENCY SUPPLYING DATA SCS, Spartanburg, S. C. 49. DATE October 1954