

RESERVOIR SEDIMENT  
DATA SUMMARY

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

Sautee Creek Site #13

SCS-34 Rev. 6-66

NAME OF RESERVOIR

11-3a

DATA SHEET NO.

DAM	1. OWNER <u>Fred Stovall</u>			2. STREAM <u>Bean Creek</u>			3. STATE <u>Georgia</u>					
	4. SEC. <u>TWP.</u> <u>RANGE</u>			5. NEAREST P. O. <u>Cleveland</u>			6. COUNTY <u>White</u>					
	7. LAT. <u>34° 38'</u> " LONG. <u>83° 19'</u> "			8. TOP OF DAM ELEVATION <u>1,407</u>			9. SPILLWAY CREST ELEV. <u>1,401.9</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>1,401.9</u>		<u>41.4</u>		<u>560.5</u>		<u>654.8</u>		<u>12/1/59</u>	
	b. MULTIPLE USE											
	c. POWER											
	d. WATER SUPPLY										16. DATE NORMAL OPER. BEGAN	
	e. IRRIGATION										<u>12/1/59</u>	
	f. CONSERVATION		<u>1,380.6</u>		<u>14.5</u>		<u>94.3</u>		<u>94.3</u>			
g. INACTIVE												
WATERSHED	17. LENGTH OF RESERVOIR <u>0.30</u> MILES				AV. WIDTH OF RESERVOIR <u>0.22</u> MILES							
	18. TOTAL DRAINAGE AREA <u>2.9</u> SQ. MI.				22. MEAN ANNUAL PRECIPITATION <u>51 yr. 63.2</u> INCHES							
	19. NET SEDIMENT CONTRIBUTING AREA <u>2.8</u> SQ. MI.				23. MEAN ANNUAL RUNOFF <u>29 yr. 36.6</u> INCHES							
	20. LENGTH <u>2.92</u> MILES		AV. WIDTH <u>0.99</u> MILES		24. MEAN ANNUAL RUNOFF <u>29 yr. 5,660</u> AC.-FT.							
	21. MAX. ELEV. <u>1,690</u>		MIN. ELEV. <u>1,364</u>		25. ANNUAL TEMP: MEAN <u>58.6°</u> RANGE <u>42° - 77°</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>12/1/59</u>						<u>14.5<sup>1</sup>/<sub>41.4<sup>2</sup></sub></u>	<u>94.3<sup>1</sup>/<sub>654.8<sup>2</sup></sub></u>	<u>0.116</u>			
	<u>11/16/70</u>		<u>10.9</u>	<u>10.9</u>	<u>Contour Mod. Prism</u>		<u>8.56<sup>1</sup>/<sub>41.4<sup>2</sup></sub></u>	<u>47.4<sup>1</sup>/<sub>535.2<sup>2</sup></sub></u>	<u>0.095</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			
	<u>11/16/70</u>		<u>67.6</u>		<u>6,274</u>	<u>7,349</u>	<u>74,661</u>	<u>6,274</u>	<u>74,661</u>			
	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>11/16/70</u>		<u>46.9<sup>1</sup>/<sub>119.6<sup>2</sup></sub></u>	<u>4.30<sup>1</sup>/<sub>10.9<sup>2</sup></sub></u>	<u>1.50<sup>1</sup>/<sub>3.87<sup>2</sup></sub></u>	<u>46.9<sup>1</sup>/<sub>119.6<sup>2</sup></sub></u>	<u>4.30<sup>1</sup>/<sub>10.9<sup>2</sup></sub></u>	<u>1.50<sup>1</sup>/<sub>3.87<sup>2</sup></sub></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>11/16/70</u>		<u>75.8<sup>3</sup>/<sub></sub></u>		<u>2,469</u> <u>6,389</u>	<u>2,469</u> <u>6,389</u>	<u>4.6<sup>1</sup>/<sub>1.7<sup>2</sup></sub></u>	<u>49.7<sup>1</sup>/<sub>18.3<sup>2</sup></sub></u>	<u>1,946</u>	<u>1,946</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

47. REMARKS AND REFERENCES

- 1/ Conservation Pool Only
- 2/ Entire Storage - High sediment accumulation in detention pool is attributed to a storm event in excess of 100 years and the back water effects of this storm which caused sediment deposition.
- 3/ High sediment density is attributed to the delivery of coarser materials which were eroded from a forested area that experienced a 1952 forest fire, and from unimproved roads that exist in the drainage area.  
0% Cropland; 2.5% Pasture; 96.5% Woodland; 1% Misc.

48. AGENCY MAKING SURVEY

49. AGENCY SUPPLYING DATA Soil Conservation Service

50. DATE June 1971