

**RESERVOIR SEDIMENT
DATA SUMMARY**

SCS-34 Rev. 6-62

Griggs Reservoir
NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

19-5b
DATA SHEET NO.

DAM	1. OWNER <u>City of Columbus</u>			2. STREAM <u>Scioto River</u>			3. STATE <u>Ohio</u>									
	4. SEC. <u>TWP. 2 N RANGE 19 W</u>			5. NEAREST TOWN <u>Columbus</u>			6. COUNTY <u>Franklin</u>									
	7. STREAM BED ELEVATION <u>-</u>			8. TOP OF DAM ELEVATION <u>-</u>			9. SPILLWAY CREST ELEV. <u>753.4</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. MULTIPLE USE										1905					
	b. FLOOD CONTROL															
	c. POWER															
	d. WATER SUPPLY		<u>753.4</u>		<u>363</u>		<u>4,563</u>		<u>4,563</u>		16. DATE NORMAL OPER. BEGAN					
	e. IRRIGATION										1905					
	f. CONSERVATION															
	g. SEDIMENT															
h. INACTIVE																
WATERSHED	17. LENGTH OF RESERVOIR <u>5.74</u> MILES				AV. WIDTH OF RESERVOIR <u>0.092</u> MILES											
	18. TOTAL DRAINAGE AREA <u>1,053</u> SQ. MI.				22. MEAN ANNUAL PRECIPITATION <u>36 (30)</u> INCHES											
	19. NET SEDIMENT CONTRIBUTING AREA <u>1,052</u> SQ. MI.				23. MEAN ANNUAL RUNOFF <u>10.1 (30)</u> INCHES											
	20. LENGTH <u>MILES</u>		AV. WIDTH <u>MILES</u>		24. MEAN ANNUAL RUNOFF <u>567,200</u> AC.-FT.											
	21. MAX. ELEV.		MIN. ELEV.		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.	
	1905		-		-		-		-		363		4,563		4.3	
	1935		30		30		D. Range		65		363		3,920		3.7	
	1951		16		46		D. Range		33		363		3,928		3.7	
	1964		13		59		D. Range		64		363		3,737		3.5	
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				
1935		36														
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			
1935		643			21.4		0.020		643		21.4		0.020			
1951		- 8			-		-		635		13.8		0.013			
1964		191			14.7		0.014		826		14.0		0.013			
26. DATE OF SURVEY		39. AV. DRY WGT. LBS. PER CU. FT.		40. SED. DEP. TONS PERSQ. MI.-YR.		41. STORAGE LOSS PCT.		42. SED. INFLOW PPM								
				a. PERIOD		b. TOTAL TO DATE		a. AV. AN.		b. TOT. TO DATE		a. PERIOD		b. TOT. TO DATE		
1935		65*		28.3		28.3		0.47		14.1						
1951		59.4		-		16.9		0.30		13.9						
1964								0.31		18.1						

* estimated

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
 Sanderson, E. E. Sedimentation of Reservoirs in Ohio, Ohio Water Resources Board, Bul. 17, Columbus, Ohio, April 1948.
 Youngquist, C. V. Ohio Stream Flow, Part 11, Summary of Stream-flow Records in Ohio, 1898-1944, Ohio Engr. Exp. Station, Vol. XVI, No. 1, Bul. 127, Columbus, Ohio, May 1947.
 O'Shaughnessy Res. Built 10 miles upstream in 1925, with original C/W ratio of 17 Region 3, Soil Conservation Service.

48. AGENCY MAKING SURVEY Ohio Division of Water
 49. AGENCY SUPPLYING DATA Ohio Division of Water

50. DATE April 15, 1968