

**RESERVOIR SEDIMENT
DATA SUMMARY**

SCS-34 Rev. 6-62

Jefferson Lake
NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

21-34b

DATA SHEET NO.

State of Ohio

Creek

DAM	1. OWNER Div. of Pk. & Recreation		2. STREAM Town Fork, Yellow		3. STATE Ohio	
	4. SEC. 18 TWP. 10 N RANGE 3 W		5. NEAREST TOWN Richmond		6. COUNTY Jefferson	
	7. STREAM BED ELEVATION 936		8. TOP OF DAM ELEVATION		9. SPILLWAY CREST ELEV. 955	
RESERVOIR	10. STORAGE ALLOCATION		12. ORIGINAL SURFACE AREA ACRES		14. GROSS STORAGE ACRE-FEET	
	11. ELEVATION TOP OF POOL		13. ORIGINAL CAPACITY ACRE-FEET		15. DATE STORAGE BEGAN	
	a. MULTIPLE USE				Dec. 1935	
	b. FLOOD CONTROL					
	c. POWER					
	d. WATER SUPPLY				16. DATE NORMAL OPER. BEGAN	
	e. IRRIGATION				Dec. 1935	
	f. CONSERVATION 955		24.3		178	
g. SEDIMENT						
h. INACTIVE						
WATERSHED	17. LENGTH OF RESERVOIR .66		MILES		AV. WIDTH OF RESERVOIR 0.059	
	18. TOTAL DRAINAGE AREA 7.52		SQ. MI.		22. MEAN ANNUAL PRECIPITATION 39.8 (30)	
	19. NET SEDIMENT CONTRIBUTING AREA 7.48		SQ. MI.		23. MEAN ANNUAL RUNOFF 15.5 (28 yrs)	
	20. LENGTH 3.75		MILES		AV. WIDTH 2.00	
	21. MAX. ELEV. 1370		MIN. ELEV. 936		25. CLIMATIC CLASSIFICATION Humid	
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.			
	Dec. 1935		--		--	
	Aug. 1950		15		D. Range	
	June 1956		6		21	
	June 1961		5		26	
					8	
					11	
					11	
					25	
					23	
					23	
					23	
					178	
				156		
				134		
				131		
				23.7		
				20.7		
				17.8		
				17.4		
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		
37. PERIOD SEDIMENT DEPOSITS ACRE-FEET		c. PERIOD TOTAL		a. MEAN ANNUAL		
38. TOTAL SED. DEPOSITS TO DATE ACRE-FEET.		b. TOTAL TO DATE		c. PER SQ. MI.-YEAR		
Aug. 1950		39.79				
June 1956		40.0				
June 1961		37.5				
Aug. 1950		22.3		1.49		
June 1956		20.9		3.48		
June 1961		2.9		0.58		
				0.199		
				43.2		
				46.1		
				22.3		
				1.49		
				2.06		
				1.77		
				0.199		
				0.275		
				0.237		
26. DATE OF SURVEY		39. AV. DRY WGT. LBS. PER CU. FT.		40. SED. DEP. TONS PER SQ. MI.-YR.		
41. STORAGE LOSS PCT.		a. PERIOD		b. TOTAL TO DATE		
42. SED. INFLOW PPM		a. AV. AN.		b. TOT. TO DATE		
a. PERIOD		b. TOT. TO DATE		a. PERIOD		
b. TOT. TO DATE		a. PERIOD		b. TOT. TO DATE		
Aug. 1950		37.88		164		
June 1956		--		164		
June 1961		--		0.84		
				12.5		
				1.16		
				24.3		
				0.99		
				25.9		

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

Sediment grey to buff, some yellowish, with light brownish and orange spots near upper end of lake. Texture: silt and clayey silt at upper end of lake: Silty clay at lower end, with some fine sand. Some organic matters in middle and upper portions of lake.

Discrepancy between items 32, 37a and 38a are due to rounding.

48. AGENCY MAKING SURVEY Ohio Division of Water
49. AGENCY SUPPLYING DATA Ohio Division of Water
50. DATE April 15, 1968