

RESERVOIR SEDIMENTATION
DATA SUMMARY

Vesuvius Lake
NAME OF RESERVOIR

19-37
DATA SHEET NO.

DAM	1. OWNER U.S. Forest Service			2. RIVER Storms Creek			3. STATE Ohio									
	4. SEC. 26 TWP. 2N RANGE 18W			5. NEAREST TOWN Ironton			6. COUNTY Lawrence									
	7. STREAM BED ELEV.			8. TOP OF DAM ELEV.			9. SPILLWAY CREST ELEV.									
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										1937					
	b. POWER															
	c. WATER SUPPLY										16. DATE NORMAL OPER. BEGAN					
	d. IRRIGATION															
	e. CONSERVATION		603.0		125.4		1552.7		1552.7		1937					
	f. INACTIVE															
WATERSHED	17. LENGTH OF RESERVOIR 2.7 MILES				AV. WIDTH OF RESERVOIR 0.075 MILES											
	18. TOTAL DRAINAGE AREA 10.9 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 41.3 (25yrs) INCHES											
	19. NET SEDIMENT CONTRIBUTING AREA 10.7 SQ. MI.				23. MEAN ANNUAL RUNOFF 13.8 (9yrs.) INCHES											
	20. LENGTH 6.5 MILES		AV. WIDTH 1.73 MILES		24. MEAN ANNUAL RUNOFF 8015 AC.-FT.											
	21. MAX. ELEV. 1020		MIN. ELEV. 590		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.	
	1937		-		-		-		-		125		1553		142	
	June 20, 1949		12.0		12.0		Range		17		125		1398		128	
	July 10, 1952		3.0		15.0		Range reconnaissance		17		125		1463		134	
	July 10, 1952		3.0		15.0		Detailed		17		125		1463		134	
	28. 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		d. MEAN ANNUAL		e. TOTAL TO DATE			
	June 20, 1949		40.5		-		-		-		-		-			
	July 10, 1952		51.6		-		-		-		-		-			
	28. 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		d. TOTAL TO DATE		e. AV. ANNUAL		f. PER SQ. MI.-YEAR				
1937		-		-		-		-		-		-				
July 10, 1952		89.67		5.98		0.559		89.67		5.98		0.559				
28. 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		c. AV. ANNUAL		d. TOT. TO DATE		e. PERIOD		f. TOT. TO DATE		
July 10, 1952		54.0		658		658		0.39		5.78		-		-		

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

1952 sections along same lines as in 1949 but soundings located along tag line stretched across lake. 1949 survey positions adjusted and recomputed on basis of 1952 survey.

48. AGENCY SUPPLYING DATA Ohio Division of Water 49. DATE June 18, 1954