

RESERVOIR SEDIMENTATION
DATA SUMMARY

Mt. Gilead Lake (Upper)

19-27

NAME OF RESERVOIR

DATA SHEET NO.

DAM	1. OWNER State of Ohio			2. RIVER Sams Creek			3. STATE Ohio									
	4. SEC. 1 TWP. 18 N RANGE 21 W			5. NEAREST TOWN Mt. Gilead			6. COUNTY Morrow									
	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										1930					
	b. POWER															
	c. WATER SUPPLY										16. DATE NORMAL OPER. BEGAN					
	d. IRRIGATION															
	e. CONSERVATION				8.4		27.7		27.7		1930					
	f. INACTIVE															
WATERSHED	17. LENGTH OF RESERVOIR MILES						AV. WIDTH OF RESERVOIR MILES									
	18. TOTAL DRAINAGE AREA 8.55 SQ. MI.				22. MEAN ANNUAL PRECIPITATION INCHES											
	19. NET SEDIMENT CONTRIBUTING AREA 5.50 * SQ. MI.				23. MEAN ANNUAL RUNOFF INCHES											
	20. LENGTH MILES				AV. WIDTH MILES				24. MEAN ANNUAL RUNOFF 580 A.F./sq.mi. AC.-FT.							
	21. MAX. ELEV.				MIN. ELEV.				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.	
	1930 Oct. 1948		- 18		- 18 R.		- Detailed		-		8.4 8.4		28 24		3.27 2.81	
	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		d. MEAN ANNUAL		e. 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		d. TOTAL TO DATE		e. AV. ANNUAL		f. PER SQ. MI.-YEAR			
	Oct. 1948		3.89		0.216		0.039		3.89		0.216		0.039			
	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		c. AV. ANNUAL		d. TOT. TO DATE		e. PERIOD		f. TOT. TO DATE	
Oct. 1948		60 est.		51		51		0.78		14.0		-		-		

* 1932 correction for Maple Grove

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
 Trap efficiency 24%

48. AGENCY SUPPLYING DATA Ohio Division of Water

49. DATE June 25, 1954