

U.S. DEPARTMENT OF AGRICULTURE  
**RESERVOIR SEDIMENTATION  
DATA SUMMARY**

**Madison Lake**  
NAME OF RESERVOIR

SOIL CONSERVATION SERVICE  
**19-15a**  
DATA SHEET NO.

<b>DAM</b>	1. OWNER <b>Ohio Division of Parks</b>		2. RIVER <b>Deer Creek</b>		3. STATE <b>Ohio</b>			
	4. SEC. -- TWP. -- RANGE --		5. NEAREST TOWN <b>London</b>		6. COUNTY <b>Madison</b>			
	7. STREAM BED ELEV.		8. TOP OF DAM ELEV.		9. SPILLWAY CREST ELEV. <b>965</b>			
<b>RESERVOIR</b>	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					Dec. 1946		
	b. POWER							
	c. WATER SUPPLY							
	d. IRRIGATION							
	e. CONSERVATION					16. DATE NORMAL OPER. BEGAN		
	f. INACTIVE	965	106	594.0	594.0	Dec. 1946		
17. LENGTH OF RESERVOIR <b>1.25</b> MILES		AV. WIDTH OF RESERVOIR <b>0.13</b> MILES						
<b>WATERSHED</b>	18. TOTAL DRAINAGE AREA <b>57.2</b> SQ. MI.		22. MEAN ANNUAL PRECIPITATION INCHES					
	19. NET SEDIMENT CONTRIBUTING AREA <b>57.0</b> SQ. MI.		23. MEAN ANNUAL RUNOFF INCHES					
	20. LENGTH <b>15.4</b> MILES	AV. WIDTH <b>3.7</b> MILES	24. MEAN ANNUAL RUNOFF AG.-FT.					
	21. MAX. ELEV. <b>1360</b>	MIN. ELEV. <b>960</b>	25. CLIMATIC CLASSIFICATION <b>Humid</b>					
<b>SURVEY DATA</b>	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.
	1946	0	0	Range Detailed	11	106	594.0	10.4
	June 1949	2.6	2.6			106	530.2	9.3
	June 1951	2.0	4.6			106	511.0	9.0
	June 1954	3.0	7.6			106	486.7	8.5
	26. DATE OF SURVEY	34. PERIOD ANNUAL PRECIPITATION	35. PERIOD WATER INFLOW ACRE- FEET			36. WATER INFL. TO DATE AG.-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	
	1949	63.8	24.6	0.43	63.8	24.6	0.43	
	1951	19.2	9.6	0.17	83.0	18.0	0.32	
	1954	24.3	8.1	0.14	107.3	14.1	0.25	
	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
1949	49.0	459	459	4.14	10.7	--	--	
1951	45.9	70	320	3.04	14.0	--	--	
1954	49.9	.52	271	2.38	18.1	--	--	

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

48. AGENCY SUPPLYING DATA Bulletin 24, Ohio Division of Water DATE October 1961

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19-15b

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