

RESERVOIR SEDIMENTATION
DATA SUMMARY

Germantown

19-4

NAME OF RESERVOIR

DATA SHEET NO.

DAM	1. OWNER Miami Conservancy Dist.			2. RIVER Twin Creek		3. STATE Ohio		
	4. SEC. 11 TWP. 3 N RANGE 4 E			5. NEAREST TOWN Germantown		6. COUNTY Montgomery		
	7. STREAM BED ELEV. -			8. TOP OF DAM ELEV. -		9. SPILLWAY CREST ELEV. 815		
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	815	3,600	106,000 1/	106,000	1920		
	b. POWER							
	c. WATER SUPPLY							
	d. IRRIGATION					16. DATE NORMAL OPER. BEGAN		
	e. CONSERVATION							
	f. INACTIVE					1920		
17. LENGTH OF RESERVOIR				MILES	14. AV. WIDTH OF RESERVOIR			
					MILES			
WATERSHED	18. TOTAL DRAINAGE AREA 270			SQ. MI.	22. MEAN ANNUAL PRECIPITATION			
					INCHES			
	19. NET SEDIMENT CONTRIBUTING AREA 264			SQ. MI.	23. MEAN ANNUAL RUNOFF			
					INCHES			
	20. LENGTH		MILES	AV. WIDTH		MILES	24. MEAN ANNUAL RUNOFF 709 per 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.
	1927 2/	-	-	-	-	3,600	106,000	393
	1942	15	15	Range Detailed	-	3,600	105,618	391
	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	
	1942		648 per sq.mi. *			648 per sq.mi. *		
	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	
	1942	382	25.5	0.097	382	25.5	0.097	
	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	a. AV. ANNUAL	b. TOT. TO DATE	a. PERIOD	b. TOT. TO DATE	
1942	79.5 (2)	168	168	0.024	0.36	700	700	

1/ No conservation pool.
2/ Year that survey ranges were established
* 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 Sandersen, E.E. Sedimentation of reservoirs in Ohio. Ohio Water Resources Board, Bulletin 17, Columbus, Ohio, April 1948.
 Brune, G.M. Rates of sediment production in midwestern United States. Soil Conserv. Serv., SCS-TP-65, Milwaukee, Wis., Dec. 1948.
 Miami Conservancy Dist. The Story of the Miami Conservancy Dist., Dayton, Ohio, '45.
 U.S. Govt.-Tennessee Valley Authority, Corps of Engrs., Dept. of Agric., Geological Survey, Bureau of Reclamation, Indian Serv., & Iowa Inst. of Hydraulic Research. A study of methods used in measurement and analysis of sediment load in streams, Rpt. No. 9, Density of sediments deposited in reservoirs, by E.W. Lane & V.A. Koelzer, St. Paul, U.S. Engr. Dist. Sub-office, Hydraulic Lab., Univ. of Iowa, Iowa City, Iowa, Nov., '43.

48. AGENCY SUPPLYING DATA Region 3, Soil Conservation Service 49. DATE July 22, 1949