

RESERVOIR SEDIMENTATION
DATA SUMMARY

Englewood
NAME OF RESERVOIR

19-3
DATA SHEET NO.

DAM	1. OWNER Miami Conservancy Dist.			2. RIVER Stillwater			3. STATE Ohio		
	4. SEC. 22 TWP. 5 N RANGE 5 E			5. NEAREST TOWN Dayton			6. COUNTY Montgomery		
	7. STREAM BED ELEV. -			8. TOP OF DAM ELEV. -			9. SPILLWAY CREST ELEV. 876		
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	876	7,900	312,000	312,000 1/	1921			
	b. POWER								
	c. WATER SUPPLY							16. DATE NORMAL OPER. BEGAN	
	d. IRRIGATION								
	e. CONSERVATION								
	f. INACTIVE							1921	
WATERSHED	17. LENGTH OF RESERVOIR			MILES	AV. WIDTH OF RESERVOIR			MILES	
	18. TOTAL DRAINAGE AREA			651	SQ. MI.	22. MEAN ANNUAL PRECIPITATION			INCHES
	19. NET SEDIMENT CONTRIBUTING AREA			639	SQ. MI.	23. MEAN ANNUAL RUNOFF			INCHES
	20. LENGTH		MILES	AV. WIDTH		MILES	24. MEAN ANNUAL RUNOFF 592 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/	-	-	Range Detailed	-	7,900	312,000	479	
	1942	15	15	Range Detailed	-	7,900	311,648	479	
	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			
	1942	565 per sq. mi. *					565 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	d. TOTAL TO DATE	e. AV. ANNUAL	f. PER SQ. MI.-YEAR		
	1942	352	23.5	0.037	352	23.5	0.037		
	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	77.5 (2)	63	63	0.0075	0.11	290	290		

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
Sanderson, E. E., Sedimentation of reservoirs in Ohio. Ohio Water Resources Board, Bulletin 17, Columbus, Ohio, April 1948.								

47. REMARKS AND REFERENCES
 Brune, G. M. Rates of sediment production in midwestern United States, Soil Conserv. Serv., SCS-TP-65, Milwaukee, Wis., Dec. 1948.
 Miami Conservancy District. The story of the Miami Conservancy District, Dayton, Ohio, 1945.
 U.S. Govt.-Tennessee Valley Authority, Corps of Engrs., Dept. of Agr., Geological Survey, Bureau of Reclamation, Indian Service, & 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 and V.A. Koelzer, St. Paul, U.S. Engr., Dist. Sub-office, Hydraulic Laboratory, Univ. of Iowa, Iowa City, Iowa, Nov. 1943.

48. AGENCY SUPPLYING DATA Region 3, Soil Conservation Service 49. DATE July 22, 1949
 U. S. Department of Agriculture, Milwaukee, Wis.