

RESERVOIR SEDIMENTATION  
DATA SUMMARY

Robbins Lake

NAME OF RESERVOIR

21-15

DATA SHEET NO.

DAM	1. OWNER <b>Clarence Wilcox</b>			2. RIVER <b>Ford Creek</b>			3. STATE <b>Ohio</b>														
	4. SEC. <b>22</b> TWP. <b>5 N</b> RANGE <b>14, 15 W</b>			5. NEAREST TOWN <b>Hartford</b>			6. COUNTY <b>Knox</b>														
	7. STREAM BED ELEV. <b>-</b>			8. TOP OF DAM ELEV. <b>-</b>			9. SPILLWAY CREST ELEV. <b>-</b>														
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										Summer 1922										
	b. POWER																				
	c. WATER SUPPLY																				
	d. IRRIGATION										16. DATE NORMAL OPER. BEGAN										
	e. CONSERVATION				14.3		91.6		91.6		Summer 1922										
f. INACTIVE																					
WATERSHED	17. LENGTH OF RESERVOIR						MILES			AV. WIDTH OF RESERVOIR			MILES								
	18. TOTAL DRAINAGE AREA						4.47			SQ. MI.			22. MEAN ANNUAL PRECIPITATION			37.70			INCHES		
	19. NET SEDIMENT CONTRIBUTING AREA						4.45			SQ. MI.			23. MEAN ANNUAL RUNOFF						INCHES		
	20. LENGTH			MILES			AV. WIDTH			MILES			24. MEAN ANNUAL RUNOFF						729 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.						
	Summer 1922		-		-		-		-		14.3		91.6		20.5						
	Dec. 1939		17.4		17.4		Range Recon.		7		14.3		79.9		18.0						
	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								
	Dec. 1939				725 per sq. mi. *						725 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								
	Dec. 1939		11.7		0.672		0.151		11.7		0.672		0.151								
	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									
Dec. 1939		68 *		224		224		0.73		12.77		320 *		320 *							

\* 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  
 Sanderson, E. E. Sedimentation of reservoirs in Ohio. Ohio Water Resources Board, Bulletin 17, Columbus, Ohio, April 1948.  
 Brune, Gunnar M. Rates of sediment production in midwestern United States, Soil Conserv. Serv., SCS-TP-65, 40 pp., illus., processed, Milwaukee, Wisconsin, December 1948.

Region 3, Soil Conservation Service  
 U. S. Department of Agriculture

48. AGENCY SUPPLYING DATA Milwaukee, Wisconsin

49. DATE July 28, 1949