

RESERVOIR SEDIMENTATION
DATA SUMMARY

Greendale Lake

17-5

NAME OF RESERVOIR

DATA SHEET NO.

DAM	1. OWNER Illinois Central Railroad		2. RIVER Connor's Branch		3. STATE Illinois			
	4. SEC. 31 TWP. 3 N RANGE 5 E		5. NEAREST TOWN Xenia		6. COUNTY Clay			
	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					August 1927		
	b. POWER							
	c. WATER SUPPLY		93.4	306	306	16. DATE NORMAL OPER. BEGAN		
	d. IRRIGATION					August 1927		
	e. CONSERVATION							
	f. INACTIVE							
WATERSHED	17. LENGTH OF RESERVOIR 1.0 MILES		AV. WIDTH OF RESERVOIR MILES					
	18. TOTAL DRAINAGE AREA 25.1 SQ. MI.		22. MEAN ANNUAL PRECIPITATION 40 (40) INCHES					
	19. NET SEDIMENT CONTRIBUTING AREA 25.0 SQ. MI.		23. MEAN ANNUAL RUNOFF INCHES					
	20. LENGTH MILES		AV. WIDTH MILES		24. MEAN ANNUAL RUNOFF 519 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.
	August 1927	-	-	-	-	93.4	306	12.2
	Sept. 27, 1940	13.1	13.1	Range Recon.	8	93.4	260	10.4
	26. DATE OF SURVEY	34. PERIOD ANNUAL PRECIPITATION	35. PERIOD WATER INFLOW ACRE- FEET			36. WATER INFL. TO DATE AC.-FT.		
	Sept. 27, 1940		a. MEAN ANNUAL	b. MAX. ANNUAL	c. PERIOD TOTAL	d. MEAN ANNUAL	e. TOTAL TO DATE	
			540 per sq. mi. *			540 per sq. mi. *		
	26. DATE OF SURVEY	37. PERIOD SEDIMENT DEPOSITS ACRE- FEET			38. TOTAL SED. DEPOSITS TO DATE ACRE- FEET.			
	Sept. 27, 1940	a. PERIOD TOTAL	b. AV. ANNUAL	c. PER SQ. MI.-YEAR	d. TOTAL TO DATE	e. AV. ANNUAL	f. PER SQ. MI.-YEAR	
		45.9	3.50	0.140	45.9	3.50	0.140	
	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	
Sept. 27, 1940	70 *	a. PERIOD	b. TOTAL TO DATE	a. AV. ANNUAL	b. TOT. TO DATE	a. PERIOD	b. TOT. TO DATE	
		213	213	1.14	15.0	600*	600*	

* 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

Brune, G. M. Rates of sediment production in midwestern United States. U. S. 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 May 18, 1950