

RESERVOIR SEDIMENTATION
DATA SUMMARY

Vermilion Lake

NAME OF RESERVOIR

17-7

DATA SHEET NO.

DAM	1. OWNER Interstate Water Co.			2. RIVER N. Fork Vermilion R.			3. STATE Illinois									
	4. SEC. 19/30 TWP. 20 N RANGE 11 W			5. NEAREST TOWN Danville			6. COUNTY Vermilion									
	7. STREAM BED ELEV. 535			8. TOP OF DAM ELEV. 577			9. SPILLWAY CREST ELEV. 567 1/2									
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										June 1915					
	b. POWER															
	c. WATER SUPPLY		567		875 1/2		8,643 1/2		8,643 1/2		16. DATE NORMAL OPER. BEGAN					
	d. IRRIGATION										June 1915					
	e. CONSERVATION															
	f. INACTIVE															
WATERSHED	17. LENGTH OF RESERVOIR 4.55				MILES				AV. WIDTH OF RESERVOIR				MILES			
	18. TOTAL DRAINAGE AREA 267				SQ. MI.				22. MEAN ANNUAL PRECIPITATION 35				INCHES			
	19. NET SEDIMENT CONTRIBUTING AREA 266				SQ. MI.				23. MEAN ANNUAL RUNOFF				INCHES			
	20. LENGTH				MILES				AV. WIDTH				MILES			
	21. MAX. ELEV.				MIN. ELEV.				24. MEAN ANNUAL RUNOFF per sq. mi. 532*				AG.-FT.			
												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.	
	June 1915		-		-		-		-		875		8,643		32.4	
	Oct. 1940		25.3		25.3		Range Recon.		12		875		7,438		27.9	
	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			
	Oct. 1940				Per sq. mi. 532 *						Per sq. mi. 532 *					
	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			
	Oct. 1940		1,205		47.6		0.179		1,205		47.6		0.179			
	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		
Oct. 1940		70*		273		273		0.55		13.94		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, Gunnar M. Rates of sediment production in midwestern United States. U. S. Soil Conserv. Serv., SCS-TP-65, 40 pp., illus., processed, Milwaukee, Wis., December 1948.

1/ In July 1925. In June 1915, spillway elevation was 562, surface area 300 acres, and storage capacity 1,226 acre-feet.

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

48. AGENCY SUPPLYING DATA
 49. DATE July 25, 1949