

RESERVOIR SEDIMENTATION  
DATA SUMMARY

Hadley Creek New Desilting Basin

District

NAME OF RESERVOIR

DATA SHEET NO.

DAM	1. OWNER <b>Sny Island Levee Drainage</b>				2. RIVER <b>Hadley Creek</b>		3. STATE <b>Illinois</b>									
	4. SEC. <b>13</b>		TWP. <b>5S</b>		RANGE <b>7W</b>		5. NEAREST TOWN <b>New Canton</b>									
	7. STREAM BED ELEV. <b>-</b>		8. TOP OF DAM ELEV. <b>-</b>		6. COUNTY <b>Pike</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				286		3,080 *		3,080 *		Dec. 1936					
	b. POWER										16. DATE NORMAL OPER. BEGAN					
	c. WATER SUPPLY															
	d. IRRIGATION															
	e. CONSERVATION															
	f. INACTIVE										Dec. 1936					
WATERSHED	17. LENGTH OF RESERVOIR				MILES		AV. WIDTH OF RESERVOIR				MILES					
	18. TOTAL DRAINAGE AREA				77.0		SQ. MI.		22. MEAN ANNUAL PRECIPITATION				INCHES			
	19. NET SEDIMENT CONTRIBUTING AREA				72.7 1/		SQ. MI.		23. MEAN ANNUAL RUNOFF				INCHES			
	20. LENGTH		MILES		AV. WIDTH		MILES		24. MEAN ANNUAL RUNOFF				585 per sq.mi * AG.-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.	
	Dec. 1936		-		-		-		-		286		3,080		40.0	
	Dec. 1939		3		3		Range detailed		9		286		2,556		33.2	
	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				479 per * sq. mi.						479 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			
	Dec. 1939		524.1 including 99 ac.ft. of sand (larger than 0.062 mm.)		175		2.41		524.1 including 99 ac.ft. of sand (larger than 0.062 mm.)		175		2.41			
	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		85 *		4,460		4,460		5.68 17.02								

1/ Excludes 3.8 sq. mi. of Mississippi River bottom land.  
\* 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, p. 32 (item 90)

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

48. AGENCY SUPPLYING DATA Milwaukee, Wisconsin

49. DATE January 11, 1950