

RESERVOIR SEDIMENTATION
DATA SUMMARY

C. M. St. P. & P. RR Reservoir

25 - 11

NAME OF RESERVOIR

DATA SHEET NO.

DAM	1. OWNER C. M. St. P. & P. RR			2. RIVER Trib. of Big Creek			3. STATE Iowa																	
	4. SEC. 32 TWP. 82N RANGE 25W			5. NEAREST TOWN Madrid			6. COUNTY Boone																	
	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										1903													
	b. POWER																							
	c. WATER SUPPLY				10 (approx.)		43		43		16. DATE NORMAL OPER. BEGAN													
	d. IRRIGATION																							
	e. CONSERVATION																							
	f. INACTIVE										1903													
WATERSHED	17. LENGTH OF RESERVOIR				MILES				AV. WIDTH OF RESERVOIR				MILES											
	18. TOTAL DRAINAGE AREA				2.54				SQ. MI.				22. MEAN ANNUAL PRECIPITATION				32 (40)				INCHES			
	19. NET SEDIMENT CONTRIBUTING AREA				2.52				SQ. MI.				23. MEAN ANNUAL RUNOFF				INCHES							
	20. LENGTH				MILES				AV. WIDTH				MILES				24. MEAN ANNUAL RUNOFF				247 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.									
	1903		-		-		-		-		10		43		16.9									
	1918		15		15		Contour detailed		-		10		25		9.8									
	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											
	1918				294 per * sq. mi.						294 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											
	1918		18		1.20		0.476		18		1.20		0.476											
	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												
1918		70 *		726		726		2.79		41.9		3,100*		3,100*										

* 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.

Survey by C. M. St. P. and P. Railway Co.

Reservoir no longer visible on 1939 aerial photos.

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

48. AGENCY SUPPLYING DATA

49. DATE May 19, 1950