

**RESERVOIR SEDIMENT
DATA SUMMARY**
SCS-34 Rev. 6-62

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

E-3, Mensink
NAME OF RESERVOIR

27-13

DATA SHEET NO.

DAM	1. OWNER West Fillmore SCD			2. STREAM Trib. E, E. Willow			3. STATE Minnesota									
	4. SEC. TWP. RANGE			5. NEAREST TOWN Preston			6. COUNTY Fillmore									
	7. STREAM BED ELEVATION 1239.8			8. TOP OF DAM ELEVATION 1272.8			9. SPILLWAY CREST ELEV. 1269.8									
RESERVOIR	10. STORAGE ALLOCATION		11. ELEVATION TOP OF POOL		12. ORIGINAL SURFACE AREA ACRES		13. ORIGINAL CAPACITY ACRE-Feet		14. GROSS STORAGE ACRE-Feet		15. DATE STORAGE BEGAN					
	a. MULTIPLE USE															
	b. FLOOD CONTROL		1269.82		31.41		222.6		292.2							
	c. POWER										Mar. 1956					
	d. WATER SUPPLY										16. DATE NORMAL OPER. BEGAN					
	e. IRRIGATION															
	f. CONSERVATION		1258.32		10.13		69.6		69.6		Mar. 1956					
	g. SEDIMENT										(late)					
h. INACTIVE																
17. LENGTH OF RESERVOIR .83			MILES			AV. WIDTH OF RESERVOIR .6			MILES							
WATERSHED	18. TOTAL DRAINAGE AREA 3.16			SQ. MI.			22. MEAN ANNUAL PRECIPITATION 26.2			INCHES						
	19. NET SEDIMENT CONTRIBUTING AREA 3.1			SQ. MI.			23. MEAN ANNUAL RUNOFF 5.1			INCHES						
	20. LENGTH MILES			AV. WIDTH MILES			24. MEAN ANNUAL RUNOFF 860			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.	
	5-8-56		0		0		-		-		31.5		292.2		92.6	
	3-10-60		3.83		3.83		(D)		15		31.5		291.0		91.8	
	4- - 64		4.08		7.91		(D)		15				287.2		91.0	
	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			
	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			
	3-1-60		1.24		.32		.11		1.24		.32		.11			
4-24-64		3.80		.93		.30		5.04		.64		.21				
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. AN.		b. TOT. TO DATE		a. PERIOD		b. TOT. TO DATE				
3-10-60		50*		120		120		.11		.42						
4-24-64		50*		330		230		.22		1.73						

*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
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
 Upper reach above R3 reshaped between construction and survey
 Two uncontrolled 22" square ports in riser at elev. 1253.32 and 1248.32

48. AGENCY MAKING SURVEY
 49. AGENCY SUPPLYING DATA Soil Conservation Service
 50. DATE July 1965