

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

FD-28 Structure
East Willow Creek Watershed
NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

27-12

DATA SHEET NO.

to Root River

DAM	1. OWNER H. Van Sande		2. STREAM Unnamed tributary/		3. STATE Minnesota			
	4. SEC. 33 TWP. 102N RANGE 11W		5. NEAREST TOWN Preston		6. COUNTY Fillmore			
	7. STREAM BED ELEVATION		8. TOP OF DAM ELEVATION		9. SPILLWAY CREST ELEV. 96.0'			
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					Oct. 1954		
	b. FLOOD CONTROL	96.0	7.06	46.8	56.79			
	c. POWER					16. DATE NORMAL OPER. BEGAN		
	d. WATER SUPPLY	85.0	1.90	9.99	9.99			
	e. IRRIGATION							
	f. CONSERVATION							
	g. SEDIMENT					Oct. 1954		
h. INACTIVE								
17. LENGTH OF RESERVOIR			0.11 MILES	AV. WIDTH OF RESERVOIR		0.10 MILES		
WATERSHED	18. TOTAL DRAINAGE AREA		0.436 SQ. MI.		22. MEAN ANNUAL PRECIPITATION *29.7 INCHES			
	19. NET SEDIMENT CONTRIBUTING AREA		0.433 SQ. MI.		23. MEAN ANNUAL RUNOFF *5.5 INCHES			
	20. LENGTH	MILES	AV. WIDTH	MILES	24. MEAN ANNUAL RUNOFF 128 AC.-FT.			
	21. MAX. ELEV.	MIN. ELEV.		25. CLIMATIC CLASSIFICATION Subhumid				
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.
	Oct. 1954	-	-	-	-	7.06	56.79	131.15
	June 1962	7.7	7.7	Range Detailed	12	7.06	55.18	127.43
	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	
	June 1962	1.61	.21	.48	1.61	.21	0.48	
	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
June 1962	*65	680	680	0.37	2.84	-	-	

* 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		Watershed Land Use - Average for Survey Period			
Land Capability Unit	Average Slope	Slope Length	Conservation Practice		
(Class)	(Acres)	(Percent)	(Feet)	(None)	(Contour Strip)
II	142	3	300	35	107
III	71	9	250	2	69
IV	45	14	200	1	44
Total 258 acres=measured rate of sediment production, adjusted for trap eff.-678 tons/sq.mi./yr.					
Adjusted for subnormal runoff-1129 tons/sq.mi./yr.					
Estimated sources of sediment-cropland-90%, other-10%					
Topography-undulating-borderline glaciated-non-glaciated					
48. AGENCY MAKING SURVEY					
49. AGENCY SUPPLYING DATA Soil Conservation Service				50. DATE Dec. 6, 1962	