

RESERVOIR SEDIMENT
DATA SUMMARY

SCS-34 Rev. 6-66

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

Schuester
NAME OF RESERVOIR

28-3

DATA SHEET NO.

DAM	1. OWNER Ernest Schuester			2. STREAM Trout Brook Trib.			3. STATE Minnesota					
	4. SEC. 32 TWP. 28N RANGE 20W			5. NEAREST P. O. Afton 3 NE			6. COUNTY Washington					
	7. LAT. 47° 51' 45" LONG. 92° 48' 57"			8. TOP OF DAM ELEVATION 102.0*			9. SPILLWAY CREST ELEV. 100.0 1*					
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. FLOOD CONTROL		100.0		12.39		42.3		55.0		1967	
	b. MULTIPLE USE										16. DATE NORMAL OPER. BEGAN	
	c. POWER											
	d. WATER SUPPLY											
	e. IRRIGATION											
	f. CONSERVATION											
WATERSHED	g. INACTIVE 2/		94.0		2.54		12.7		12.7		1967	
	17. LENGTH OF RESERVOIR 0.189 MILES				AV. WIDTH OF RESERVOIR 0.102 MILES							
	18. TOTAL DRAINAGE AREA 3.09 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 28 INCHES							
	19. NET SEDIMENT CONTRIBUTING AREA 3.07 SQ. MI.				23. MEAN ANNUAL RUNOFF 4.8 3' INCHES							
	20. LENGTH 1.52 MILES		AV. WIDTH 2.03 MILES		24. MEAN ANNUAL RUNOFF 791 AC.-FT.							
21. MAX. ELEV. 1005**		MIN. ELEV. 855**		25. ANNUAL TEMP.: MEAN 42°F RANGE 10° to 71°F								
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/I. RATIO, AC.-FT. PER AC.-FT.			
	1967		-	-	-	-	12.39	55.00	0.07			
	1971		4	4	R	6	12.39	54.58	0.07			
	1973		2	6	R	6	12.39	54.55	0.07			
	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			
	1971		28.55		791	1566	3164	791	3164			
	1973		22.45		396	494	890	676	4054			
	26. DATE OF SURVEY		37. PERIOD CAPACITY LOSS, 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				
1971		0.42	0.105	0.0342	0.42	0.105	0.0342					
1973		0.03	0.015	0.0049	0.45	0.075	0.0244					
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. ANN.	b. TOT. TO DATE	a. PERIOD	b. TOT. TO DATE			
1971		60***		44.7	44.7	0.19	0.76					
1973		60***		6.4	31.9	0.14	0.82					

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET BELOW, AND ABOVE, 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														
1971	31	36	20	10	3	0	0	0	0	0					
1973	40	30	14	10	4	2	0	0	0	0					

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

1/ Emergency spillway crest elev. shown. Principal spillway crest elev. - 94.0

2/ Sediment Pool

3/ USGS Circular #52 and Kerr Report, December 1959

*Assumed Datum
 **Estimated on 1927 North American Datum
 ***Estimated

48. AGENCY MAKING SURVEY SCS-USDA

49. AGENCY SUPPLYING DATA SCS-USDA

50. DATE July, 1976