

RESERVOIR SEDIMENT
DATA SUMMARY

SCS-34 Rev. 6-66

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

Ruegg-Alberts Group

NAME OF RESERVOIR

27-15

DATA SHEET NO.

Middle Fork Trib.

DAM	1. OWNER Ruegg-Alberts		2. STREAM Zumbro River		3. STATE Minnesota			
	4. SEC. 14 TWP. 108N RANGE 16W		5. NEAREST P.O. Pine Island 4 1/2		6. COUNTY Dodge			
	7. LAT. 44° 00' 33" LONG. 92° 42' 49"		8. TOP OF DAM ELEVATION 115.0* ^{S.W.}		9. SPILLWAY CREST ELEV. 112.6			
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	112.6*	7.84	47.95	64.63	8-12-63		
	b. MULTIPLE USE							
	c. POWER							
	d. WATER SUPPLY					16. DATE NORMAL OPER. BEGAN		
	e. IRRIGATION							
	f. CONSERVATION							
	g. INACTIVE 1/	103.0*	3.59	16.68	16.68	8-12-63		
WATERSHED	17. LENGTH OF RESERVOIR .25		MILES		AV. WIDTH OF RESERVOIR .05			
	18. TOTAL DRAINAGE AREA 1.09		SQ. MI.		22. MEAN ANNUAL PRECIPITATION 28			
	19. NET SEDIMENT CONTRIBUTING AREA 1.08		SQ. MI.		23. MEAN ANNUAL RUNOFF 5.0 2'			
	20. LENGTH 1.77		MILES		24. MEAN ANNUAL RUNOFF 290.7			
	21. MAX. ELEV. 222*		MIN. ELEV. 95*		25. ANNUAL TEMP: MEAN 42°F RANGE 12-72 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.
	8-63	-	-	-	-	7.84	64.63	0.22
	6-71	8	8	Range	200' C.I.	7.84	63.65	0.22
	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
	6-71	20.51		203	635	2344	203	2344
	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	
	6-71	.98	.12	.11	.98	.12	.11	
	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		
6-71	55**	136	136	0.13	1.52			

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														
6-71	33.1	18.4	13.3	11.3	10.2	7.2	3.0	2.0	1.0	0.5					

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/ Sediment

2/ Data from USGS Circular #52 and Kerr Report, December 1959

*Assumed Datum
**Estimated

48. AGENCY MAKING SURVEY USDA-SCS
49. AGENCY SUPPLYING DATA USDA-SCS

50. DATE July, 1976