

# RESERVOIR SEDIMENT DATA SUMMARY

SCS-34 Rev. 6-66

Adams

NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

46- 26

DATA SHEET NO.

Trib. to

DAM	1. OWNER <u>I. Adams</u>			2. STREAM <u>Bluff Creek</u>			3. STATE <u>Kansas</u>					
	4. SEC. <u>I</u> TWP. <u>33S</u> RANGE <u>7W</u>			5. NEAREST P. O. <u>Anthony</u>			6. COUNTY <u>Harper</u>					
	7. LAT <u>37° 12' N</u> LONG. <u>98° 01' W</u>			8. TOP OF DAM ELEVATION <u>100.00</u>			9. SPILLWAY CREST ELEV. <u>97.00</u>					
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										Sept. 1934	
	b. MULTIPLE USE											
	c. POWER											
	d. WATER SUPPLY		<u>97.00</u>		<u>3.60</u>		<u>13.50</u>		<u>13.50</u>		16. DATE NORMAL OPER. BEGAN	
	e. IRRIGATION										Sept. 1934	
	f. CONSERVATION											
	g. INACTIVE											
WATERSHED	17. LENGTH OF RESERVOIR <u>0.20</u> MILES				AV. WIDTH OF RESERVOIR <u>0.03</u> MILES							
	18. TOTAL DRAINAGE AREA <u>0.24</u> SQ. MI.				22. MEAN ANNUAL PRECIPITATION <u>26.95</u> INCHES							
	19. NET SEDIMENT CONTRIBUTING AREA <u>0.23</u> SQ. MI.				23. MEAN ANNUAL RUNOFF <u>1.90</u> INCHES							
	20. LENGTH <u>0.74</u> MILES		AV. WIDTH <u>0.32</u> MILES		24. MEAN ANNUAL RUNOFF <u>24</u> AC.-FT.							
	21. MAX. ELEV.		MIN. ELEV.		25. ANNUAL TEMP: MEAN <u>57</u> RANGE <u>-15 to +115</u>							
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.			
	August 13 1968		33.92	33.92	Range	7	3.60	Original 13.50 Present 5.76	0.56 0.24			
	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 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				
	August 13 1968		7.74	0.23	1.00	7.74	0.23	1.00				
	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			
August 13 1968		<u>60 1/2</u>	1307	1307	1.68	57.0						

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														

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

Trap Efficiency 70%

1/ Assumed Values  
 2/ Corrected For Trap Efficiency

Pasture Poor 5% at 5% slope.  
 Crop 95% - 3% slopes near dam, 0-1% slopes in upper 1/3 of drainage area.

48. AGENCY MAKING SURVEY

49. AGENCY SUPPLYING DATA **USDA - SCS**

50. DATE Sept. 19, 1968