

**RESERVOIR SEDIMENT
DATA SUMMARY**

SCS-34 Rev. 6-66

Walker Pond
NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

33- 11
DATA SHEET NO.

DAM	1. OWNER <u>Art Walker</u>			2. STREAM <u>Trib. to Beaver Cr.</u>			3. STATE <u>Kansas</u>									
	4. SEC. <u>SE 17WP. 3</u> RANGE <u>33</u>			5. NEAREST P.O. <u>Atwood, Ks. - 19</u>			6. COUNTY <u>Rawlins</u>									
	7. LAT. <u>39° 48'</u> " LONG <u>101° 03'</u> "			8. TOP OF DAM ELEVATION <u>104.0*</u>			9. SPILLWAY CREST ELEV. <u>100.0*</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										Oct. 1948					
	b. MULTIPLE USE															
	c. POWER															
	d. WATER SUPPLY		<u>100.0*</u>		<u>5.07</u>		<u>20.96</u>		<u>20.96</u>		16. DATE NORMAL OPER. BEGAN					
	e. IRRIGATION															
	f. CONSERVATION										Oct. 1948					
	g. INACTIVE															
17. LENGTH OF RESERVOIR <u>.76</u> MILES					AV. WIDTH OF RESERVOIR <u>.05</u> MILES											
18. TOTAL DRAINAGE AREA <u>4.78</u> SQ. MI.					22. MEAN ANNUAL PRECIPITATION <u>18.7</u> INCHES											
19. NET SEDIMENT CONTRIBUTING AREA <u>4.77</u> SQ. MI.					23. MEAN ANNUAL RUNOFF <u>.25</u> INCHES											
20. LENGTH <u>3.75</u> MILES					AV. WIDTH <u>1.27</u> MILES					24. MEAN ANNUAL RUNOFF <u>64</u> AC.-FT.						
21. MAX. ELEV. <u>3075'*</u>					MIN. ELEV. <u>2925'*</u>					25. ANNUAL TEMP: MEAN <u>53°</u> RANGE						
WATERSHED	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.	
	<u>8-7-70</u>		<u>21.8</u>		<u>21.8</u>		<u>Range (D)</u>		<u>5</u>		<u>5.07</u>		Original <u>20.96</u> Present <u>13.82</u>		<u>.329</u> <u>.215</u>	
SURVEY DATA	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			
<u>8-7-70</u>		<u>7.14</u>		<u>.33</u>		<u>.07</u>		<u>7.14</u>		<u>.33</u>		<u>.07</u>				
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				
<u>8-7-70</u>		<u>*70#</u>		<u>105</u>		<u>105</u>		<u>1.56</u>		<u>34.12</u>						

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

Slope: Range (Fair) 6-12%. Cropland 2-3%.
 Land Use: 59% Range & 41% Cropland (of which 34% is ICT).
 Trap Efficiency: 93%
 Yield: .074 Ac. Ft./Sq. Mi./Yr. (112.85 Tons/Sq. Mi./Yr.)

48. AGENCY MAKING SURVEY Kansas Watershed Planning Staff, Soil Conservation Service
 49. AGENCY SUPPLYING DATA Soil Conservation Service
 50. DATE 9-29-70