

RESERVOIR SEDIMENT  
DATA SUMMARY

SCS-34 Rev. 6-66

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

Barber

NAME OF RESERVOIR

46- 45

DATA SHEET NO.

Trib. to

DAM	1. OWNER <b>Ron Barber</b>			2. STREAM <b>Arkansas River</b>			3. STATE <b>Kansas</b>					
	4. SEC. <b>20</b> TWP. <b>208</b> RANGE <b>10W</b>			5. NEAREST P.O. <b>Raymond</b>			6. COUNTY <b>Rice</b>					
	7. L. AT. <b>38-18</b> ' N " LONG.			8. TOP OF DAM ELEVATION <b>92.80</b>			9. SPILLWAY CREST ELEV. <b>89.80</b>					
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		<b>89.8</b>		<b>7.90</b>		<b>13.90</b>		<b>21.50</b>		<b>June 26 1962</b>	
	b. MULTIPLE USE											
	c. POWER											
	d. WATER SUPPLY		<b>85.8</b>		<b>4.60</b>		<b>7.60</b>		<b>7.60</b>		<b>June 26 1962</b>	
	e. IRRIGATION											
	f. CONSERVATION											
	g. INACTIVE											
17. LENGTH OF RESERVOIR			<b>0.21</b> MILES			AV. WIDTH OF RESERVOIR			<b>0.05</b> MILES			
18. TOTAL DRAINAGE AREA			<b>0.57</b> SQ. MI.			22. MEAN ANNUAL PRECIPITATION			<b>26.20</b> INCHES			
19. NET SEDIMENT CONTRIBUTING AREA			<b>0.57</b> SQ. MI.			23. MEAN ANNUAL RUNOFF			<b>1.20</b> INCHES			
20. LENGTH			<b>1.00</b> MILES			AV. WIDTH			<b>0.57</b> MILES			
21. MAX. ELEV.			MIN. ELEV.			25. ANNUAL TEMP: MEAN			<b>57</b> RANGE <b>-27 to +114</b>			
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.			
<b>June 27 1968</b>		<b>6.2</b>	<b>6.2</b>	<b>Range</b>	<b>5</b>	<b>4.60</b>	<b>Original 21.50</b>		<b>0.60</b>			
							<b>Present 17.97</b>		<b>0.50</b>			
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					
<b>June 27 1968</b>		<b>3.53</b>	<b>0.57</b>	<b>1.00</b>	<b>3.53</b>	<b>0.57</b>	<b>1.00</b>					
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					
<b>June 27 1968</b>		<b>70#<sup>1</sup></b>	<b>1525</b>	<b>1525</b>	<b>2.6</b>	<b>16.4</b>						

N

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 92%

1/ Assumed

Pasture fair 37%

Crop 63%

48. AGENCY MAKING SURVEY

49. AGENCY SUPPLYING DATA      USDA-Soil Conservation Service

50. DATE      Sept. 9, 1968