

**RESERVOIR SEDIMENT  
DATA SUMMARY**

SCS-34 Rev. 6-66

N  
U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

Coberly  
NAME OF RESERVOIR

46- 46

DATA SHEET NO.

Ark Basin

DAM	1. OWNER <b>Coberly</b>				2. STREAM <b>Trub - Buffalo Creek</b>		3. STATE <b>Kansas</b>	
	4. SEC. <b>17</b>		TWP. <b>19</b>		RANGE <b>28W</b>		5. NEAREST P.O. <b>Dighton</b>	
	7. LAT. <b>38 26 ' 30"</b>		LONG <b>100 27 ' 30"</b>		8. TOP OF DAM ELEVATION <b>100.00*</b>		9. SPILLWAY CREST ELEV. <b>95.90*</b>	
RESERVOIR	10. STORAGE ALLOCATION		11. ELEVATION TOP OF POOL		12. ORIGINAL SURFACE AREA, ACRES		13. ORIGINAL CAPACITY, ACRE-FEET	
	a. FLOOD CONTROL							
	b. MULTIPLE USE							
	c. POWER							
	d. WATER SUPPLY		<b>95.90*</b>		<b>16.60</b>		<b>18.00</b>	
	e. IRRIGATION							
	f. CONSERVATION							
	g. INACTIVE							
WATERSHED	17. LENGTH OF RESERVOIR <b>0.23</b> MILES				AV. WIDTH OF RESERVOIR <b>0.04</b> MILES			
	18. TOTAL DRAINAGE AREA <b>2.10</b> SQ. MI.				22. MEAN ANNUAL PRECIPITATION <b>19</b> INCHES			
	19. NET SEDIMENT CONTRIBUTING AREA <b>2.10</b> SQ. MI.				23. MEAN ANNUAL RUNOFF <b>0.25</b> INCHES			
	20. LENGTH <b>2.10</b> MILES		AV. WIDTH <b>1.00</b> MILES		24. MEAN ANNUAL RUNOFF <b>27</b> AC.-FT.			
	21. MAX. ELEV.		MIN. ELEV.		25. ANNUAL TEMP: MEAN <b>56</b> RANGE <b>-26 to 115</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
<b>August 30 1967</b>		<b>21</b>	<b>21</b>	<b>Range</b>	<b>8</b>	<b>16.60</b>	Original <b>18.00</b> Present <b>12.93</b>	<b>0.65</b>  <b>0.48</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
SURVEY DATA	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>August 30 1967</b>		<b>5.07</b>	<b>0.24</b>	<b>0.11</b>	<b>5.07</b>	<b>0.24</b>	<b>0.11</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>August 30 1967</b>		<b>60*</b>	<b>143</b>	<b>143</b>	<b>1.33</b>	<b>28.20</b>		

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

\* Assumed

Pasture (good) = 10% with 3% slopes  
 Cropland = 90% with 46% Lct, conservation has been applied within last 4 years, 0 - 2% slopes  
 I.E. = 94%  
 Watershed yield = 0.12 ac. ft./sq. mi./yr.

48. AGENCY MAKING SURVEY

49. AGENCY SUPPLYING DATA U.S.D.A., Soil Conservation Service

50. DATE August 30, 1967