

RESERVOIR SEDIMENT  
DATA SUMMARY

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

South Fork of Blackwater, Site A-1

SCS-34 Rev. 6-66

NAME OF RESERVOIR

31-70

DATA SHEET NO.

DAM	1. OWNER <u>L. Kohler</u>			2. STREAM <u>W. Branch of S. Fork</u>			3. STATE <u>Missouri</u>					
	4. SEC. <u>1</u> TWP. <u>46N</u> RANGE <u>29W</u>			5. NEAREST P.O. <u>Kingsville, MO</u>			6. COUNTY <u>Johnson</u>					
	7. LAT. <u>38° 49' 12"</u> LONG. <u>94° 05' 0"</u>			8. TOP OF DAM ELEVATION <u>874.3</u>			9. SPILLWAY CREST ELEV. <u>871.3</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		<u>871.3</u>		<u>62</u>		<u>340</u>		<u>490.6</u>		<u>08/26/64</u>	
	b. MULTIPLE USE											
	c. POWER											
	d. WATER SUPPLY										16. DATE NORMAL OPER. BEGAN	
	e. IRRIGATION											
	f. CONSERVATION											
g. INACTIVE		<u>863.0</u>		<u>26.7</u>		<u>150.6</u>		<u>150.6</u>		<u>08/26/64</u>		
17. LENGTH OF RESERVOIR <u>.682</u> MILES					AV. WIDTH OF RESERVOIR <u>0.142</u> MILES							
WATERSHED	18. TOTAL DRAINAGE AREA <u>2.62 (4.46) 3/</u> SQ. MI.				22. MEAN ANNUAL PRECIPITATION <u>36.29</u> INCHES							
	19. NET SEDIMENT CONTRIBUTING AREA <u>2.52 (4.36) 3/</u> SQ. MI.				23. MEAN ANNUAL RUNOFF <u>8</u> INCHES							
	20. LENGTH <u>3.9</u> MILES		AV. WIDTH <u>.67</u> MILES		24. MEAN ANNUAL RUNOFF <u>1117.8 (1902.8) 3/</u> AC.-FT.							
	21. MAX. ELEV. <u>1055</u>		MIN. ELEV. <u>844.3</u>		25. ANNUAL TEMP: MEAN <u>55°</u> RANGE <u>115°</u> to <u>-26°</u>							
	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>08/26/64</u>						<u>26.7 1/</u>	<u>150.6 1/</u> <u>490.6 2/</u>	<u>(.439) 3/</u>				
<u>06/16/75</u>		<u>10.8</u>	<u>10.8</u>	<u>Contour (R)</u>	<u>2' (CI)</u>	<u>62 2/</u>	<u>116.0 1/</u> <u>456.0 2/</u>	<u>(.408) 3/</u>				
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				
<u>06/16/75</u>		<u>41.84</u>		-----NO DATA-----			-----NO 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					
<u>06/16/75</u>		<u>34.6</u>	<u>3.204</u>	<u>1.27</u>	<u>34.6</u>	<u>3.204</u>	<u>1.27</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>06/16/75</u>		<u>51.38</u>		<u>1420.9</u>	<u>1420.9</u>	<u>2.13 1/</u> <u>.653 2/</u>	<u>22.97 1/</u> <u>7.05 2/</u>	-----NO DATA-----				

SURVEY DATA

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET BELOW, AND ABOVE, CREST ELEVATION														
	850-852	852-854	54-56	56-58	58-60	60-62	62-63								
	PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION														
06/16/75	1	15	29	20	19	13	3								
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														
N.A.															
45. RANGE IN RESERVOIR OPERATION															
WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW, AC.-FT.	WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW, AC.-FT.								
N.A.															
46. ELEVATION-AREA-CAPACITY DATA															
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY							
Original Capacity	- 1964		1975 Capacity												
852	.57	.32	852	--	--										
854	5.64	5.66	854	.26	.07										
856	10.33	21.39	856	7.01	5.81										
858	14.35	45.97	858	10.58	23.29										
860	20.45	80.60	860	17.83	51.39										
862	24.16	125.18	862	22.38	91.53										
863	26.73	150.59	863	26.73	116.03										
47. REMARKS AND REFERENCES															
<p>1/ Sediment pool only.</p> <p>2/ Total reservoir below emergency spillway elevation (871.3).</p> <p>3/ There are two grade stabilization structures located within the watershed and controlling part of the drainage area.</p> <p>Land use and erosion yield is reported in an unpublished SCS report.</p>															
48. AGENCY MAKING SURVEY Missouri Watershed Planning Party, Soil Conservation Service															
49. AGENCY SUPPLYING DATA Soil Conservation Service															
50. DATE 7/20/76															