

RESERVOIR SEDIMENT
DATA SUMMARY

SCS-34 Rev. 6-66

N
U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

Thever
NAME OF RESERVOIR

46-24

DATA SHEET NO.

Lower Ark Basin

DAM	1. OWNER John Thever			2. STREAM Trib to Slate Creek			3. STATE Kansas					
	4. SEC. NE11 TWP. 32 RANGE 1E			5. NEAREST P.O. Wellington			6. COUNTY Sumner					
	7. LAT 37° 17' 03" LONG 97° 16' 50"			8. TOP OF DAM ELEVATION 100.00*			9. SPILLWAY CREST ELEV. 97.00*					
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										1958	
	b. MULTIPLE USE										16. DATE NORMAL OPER. BEGAN	
	c. POWER										1958	
	d. WATER SUPPLY		97.00*		1.37		4.09		4.09			
	e. IRRIGATION											
	f. CONSERVATION											
g. INACTIVE												
WATERSHED	17. LENGTH OF RESERVOIR 0.10 MILES				AV. WIDTH OF RESERVOIR 0.03 MILES							
	18. TOTAL DRAINAGE AREA 0.14 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 31 INCHES							
	19. NET SEDIMENT CONTRIBUTING AREA 0.14 SQ. MI.				23. MEAN ANNUAL RUNOFF 3.5 INCHES							
	20. LENGTH 0.42 MILES		AV. WIDTH 0.33 MILES		24. MEAN ANNUAL RUNOFF 26 AC.-FT.							
	21. MAX. ELEV. 1,290.00*		MIN. ELEV. 1,240.00		25. ANNUAL TEMP.: MEAN 57 RANGE -19 to 120							
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 14 1967		9	9	Range	6	1.37	Original 4.09 Present 3.38		0.16 0.13		
	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 14 1967		0.71	0.08	0.57	0.71		0.08		0.57		
	26. DATE OF SURVEY		39. AV. DRY WGT., LBS. PER CU. FT.		40. SED. DEP., TONS PERSQ. 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 14 1967		60*	745	745	1.96	17.36						

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
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 (fair - poor) = 100% with 2 - 3% slopes
 I.E. = 85%
 Watershed yield = 0.67 ac. ft./sq. mi./yr.

48. AGENCY MAKING SURVEY

49. AGENCY SUPPLYING DATA U.S.D.A., Soil Conservation Service 50. DATE August 22, 1967