

RESERVOIR SEDIMENT
DATA SUMMARY

SCS-34 Rev. 6-66

Meritt Pond

NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

45- 52

DATA SHEET NO.

DAM	1. OWNER Meritt			2. STREAM Big Creek			3. STATE Kansas					
	4. SEC. SW3 TWP. 22 RANGE 14E			5. NEAREST P. O. Burlington			6. COUNTY Coffey					
	7. LAT. 38° 09' 33" LONG. 95° 51' 57"			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										1939	
	b. MULTIPLE USE											
	c. POWER											
	d. WATER SUPPLY		97.00*		1.37		8.09		8.09		16. DATE NORMAL OPER. BEGAN	
	e. IRRIGATION										1939	
	f. CONSERVATION											
	g. INACTIVE											
WATERSHED	17. LENGTH OF RESERVOIR 0.14 MILES				AV. WIDTH OF RESERVOIR 0.05 MILES							
	18. TOTAL DRAINAGE AREA 0.25 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 37 INCHES							
	19. NET SEDIMENT CONTRIBUTING AREA 0.25 SQ. MI.				23. MEAN ANNUAL RUNOFF 7 INCHES							
	20. LENGTH 0.81 MILES		AV. WIDTH 0.31 MILES		24. MEAN ANNUAL RUNOFF 93 AC.-FT.							
	21. MAX. ELEV. 1,160.00		MIN. ELEV. 1,100.00		25. ANNUAL TEMP.: MEAN 56 RANGE -25 to 117							
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 17 1967		28	28	Range	4	1.37	Original 8.09 Present 4.17		0.09 0.045		
	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 17 1967		3.92	0.14	0.56	3.92	0.14	0.56				
	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				
August 17 1967		60*	731	731	1.73	48.45						

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

Cropland = 31%, 2% slopes
 Pasture (fair) = 69% with 4 - 5% slopes
 T.E. = 77%
 Watershed yield = 0.73 ac. ft./sq. mi./yr.

48. AGENCY MAKING SURVEY
 49. AGENCY SUPPLYING DATA U.S.D.A., Soil Conservation Service
 50. DATE August 17, 1967