

RESERVOIR SEDIMENT DATA SUMMARY

41 A - Big Caney  
NAME OF RESERVOIR

45-60  
DATA SHEET NO.

DAM	1. OWNER Jim Thompson		2. STREAM Big Caney Trib.		3. STATE Kansas			
	4. SEC. 9 TWP. 31S RANGE 9E		5. NEAREST P.O. Grenola		6. COUNTY Elk			
	7. LAT. 37° 20' 40" LONG. 96° 25' 10"		8. TOP OF DAM ELEVATION 1176.1		9. SPILLWAY CREST ELEV. 1170.7			
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	1170.7	212.6	1759.8	2045.9	2-28-67		
	b. MULTIPLE USE							
	c. POWER							
	d. WATER SUPPLY					16. DATE NORMAL OPER. BEGAN		
	e. IRRIGATION							
	f. CONSERVATION					2-28-67		
g. INACTIVE 1/	1157.0	58.3	286.1	286.1				
WATERSHED	17. LENGTH OF RESERVOIR 0.6 MILES		AV. WIDTH OF RESERVOIR 0.55 MILES					
	18. TOTAL DRAINAGE AREA 7.64 SQ. MI.		22. MEAN ANNUAL PRECIPITATION 36.06 INCHES					
	19. NET SEDIMENT CONTRIBUTING AREA 7.31 SQ. MI.		23. MEAN ANNUAL RUNOFF 6 INCHES					
	20. LENGTH 3.5 MILES	AV. WIDTH 2.2 MILES	24. MEAN ANNUAL RUNOFF 2445 AC.-FT.					
	21. MAX. ELEV. 1320		MIN. ELEV. 1126		25. ANNUAL TEMP: MEAN RANGE			
SURVEY DATA	25. 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.
	2/67	-	-	-	-	212.6	2045.9	0.84
	5/77	10.25	10.25	Range	16	212.6	2003.3	0.82
	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	
	5/77	42.6	4.16	0.57	42.6	4.16	0.57	
	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	
5/77	47	583	583	0.2	2.1			

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

1/ Sediment pool.

48. AGENCY MAKING SURVEY      Soil Conservation Service  
 49. AGENCY SUPPLYING DATA      Soil Conservation Service

50. DATE      12/77