

RESERVOIR SEDIMENT DATA SUMMARY

White Clay, Brewery #14
NAME OF RESERVOIR

31- 71
DATA SHEET NO.

DAM	1. OWNER Dr. John Watson, D.V.M.		2. STREAM White Clay (trib)		3. STATE Kansas			
	4. SEC. 17 TWP. 6S RANGE 20E		5. NEAREST P.O. Atchison, KS		6. COUNTY Atchison			
	7. LAT. 39° 31' 30" LONG. 95° 12' 00"		8. TOP OF DAM ELEVATION 1024.5		9. SPILLWAY CREST ELEV. 1019.2			
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	1019.2	22.5	233.8	311.8	9/14/61		
	b. MULTIPLE USE							
	c. POWER					16. DATE NORMAL OPER. BEGAN		
	d. WATER SUPPLY							
	e. IRRIGATION					9/14/61		
	f. CONSERVATION							
g. INACTIVE 1/	1003.0	8.5	78.0	78.0				
WATERSHED	17. LENGTH OF RESERVOIR 0.21 MILES		AV. WIDTH OF RESERVOIR 0.17 MILES					
	18. TOTAL DRAINAGE AREA 0.45 SQ. MI.		22. MEAN ANNUAL PRECIPITATION 36.2 INCHES					
	19. NET SEDIMENT CONTRIBUTING AREA 0.41 SQ. MI.		23. MEAN ANNUAL RUNOFF 6.1 INCHES					
	20. LENGTH 1.0 MILES		AV. WIDTH 0.45 MILES		24. MEAN ANNUAL RUNOFF 146 AC.-FT.			
	21. MAX. ELEV. 1075		MIN. ELEV. 990		25. ANNUAL TEMP: MEAN RANGE			
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.
	9/61	-	-	-	-	22.5	311.8	2.13
	5/77	15.7	15.7	Range	17	22.5	292.1	2.00
	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	19.7	1.25	3.02	19.7	1.25	3.02	
	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	53	3491	3491	0.40	6.32			

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															
<u>1/</u> Sediment pool.															
48. AGENCY MAKING SURVEY				Soil Conservation Service				49. AGENCY SUPPLYING DATA		Soil Conservation Service				50. DATE <u>12/77</u>	