

RESERVOIR SEDIMENTATION
DATA SUMMARY

Buffalo Tank (Knox Tank)
NAME OF RESERVOIR

53-23
DATA SHEET NO.

DAM	1. OWNER Knox Ranch			2. RIVER Unnamed trib. of Pecan Bayou			3. STATE Texas										
	4. SEC. - TWP. - RANGE -			5. NEAREST TOWN Coleman			6. COUNTY Coleman										
	7. STREAM BED ELEV.			8. TOP OF DAM ELEV.			9. SPILLWAY CREST ELEV.										
RESERVOIR	10. STORAGE ALLOCATION		11. ELEVATION TOP OF POOL		12. SURFACE AREA ACRES		13. STORAGE ACRE- FEET		14. ACCUMULATED ACRE- FEET		15. DATE STORAGE BEGAN						
	a. FLOOD CONTROL										1900						
	b. POWER																
	c. WATER SUPPLY				9.6		33		33		16. DATE NORMAL OPER. BEGAN						
	d. IRRIGATION																
	e. CONSERVATION																
	f. INACTIVE										1900						
WATERSHED	17. LENGTH OF RESERVOIR					MILES		AV. WIDTH OF RESERVOIR					MILES				
	18. TOTAL DRAINAGE AREA 1.73					SQ. MI.		22. MEAN ANNUAL PRECIPITATION 27.6 (57)					INCHES				
	19. NET SEDIMENT CONTRIBUTING AREA 1.71					SQ. MI.		23. MEAN ANNUAL RUNOFF					INCHES				
	20. LENGTH			MILES		AV. WIDTH			MILES		24. MEAN ANNUAL RUNOFF			AC.-FT.			
	21. MAX. ELEV.			MIN. ELEV.			25. CLIMATIC CLASSIFICATION Sub-humid										
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 _w RATIO AC.-FT. PER SQ. MI.		
	1900		-		-		-		-		9.6		33		19		
	Feb. 1941		41		41		Recon.		30 meas.		9.6		29		17		
	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 SEDIMENT DEPOSITS 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				
	Feb. 1941		4.14		0.10		0.058		4.14		0.10		0.058				
	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. ANNUAL		b. TOT. TO DATE		a. PERIOD		b. TOT. TO DATE	
Feb. 1941										0.31		12.54		-		-	

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET ABOVE, AND BELOW, 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

Region 4, Soil Conservation Service
U. S. Department of Agriculture

48. AGENCY SUPPLYING DATA Fort Worth, Texas

49. DATE January 2, 1951