

RESERVOIR SEDIMENTATION
DATA SUMMARY

Helms Tank

NAME OF RESERVOIR

52-6

DATA SHEET NO.

DAM	1. OWNER Helms Ranch			2. RIVER Unnamed trib. of Sandy Creek		3. STATE Texas												
	4. SEC. - TWP. - RANGE -			5. NEAREST TOWN Llano		6. COUNTY Llano												
	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										1916							
	b. POWER																	
	c. WATER SUPPLY				4.4		12		12		16. DATE NORMAL OPER. BEGAN							
	d. IRRIGATION																	
	e. CONSERVATION																	
	f. INACTIVE										1916							
WATERSHED	17. LENGTH OF RESERVOIR					MILES		18. AV. WIDTH OF RESERVOIR					MILES					
	18. TOTAL DRAINAGE AREA					0.15		SQ. MI.		22. MEAN ANNUAL PRECIPITATION					24.3 (31) INCHES			
	19. NET SEDIMENT CONTRIBUTING AREA					0.14		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.			
	1916		-		-		-		-		4.4		12		80			
	Feb. 1941		25		25		Recon.		32 meas.		4.4		11.6		77			
	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		0.43		0.017		0.12		0.43		0.017		0.12					
	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								0.14		3.58		-		-				

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
Fort Worth, Texas

48. AGENCY SUPPLYING DATA

49. DATE January 2, 1951