

RESERVOIR SEDIMENT
DATA SUMMARY

DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS

Hords Creek Reservoir

NAME OF RESERVOIR

53-49

DATA SHEET NO.

DAM	1. OWNER Corps of Engineers			2. STREAM Hords Creek		3. STATE Texas														
	4. SEC. - TWP. - RANGE -			5. NEAREST P. O Coleman, 13W		6. COUNTY Coleman														
	7. LAT 31°51' - " LONG. 99°34' - "			8. TOP OF DAM ELEVATION 1939.0		9. SPILLWAY CREST ELEV. 1920.0														
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		1920.0		1264		16,677		25,314		7 Apr 48									
	b. MULTIPLE USE																			
	c. POWER																			
	d. WATER SUPPLY		1900.0		510		8,637		8,637		16. DATE NORMAL OPER. BEGAN									
	e. IRRIGATION																			
	f. CONSERVATION																			
g. INACTIVE																				
17. LENGTH OF RESERVOIR		3.44		MILES		AV. WIDTH OF RESERVOIR		0.57		MILES										
WATERSHED	18. TOTAL DRAINAGE AREA				48		SQ. MI.		22. MEAN ANNUAL PRECIPITATION				26.82		INCHES					
	19. NET SEDIMENT CONTRIBUTING AREA				46.02		SQ. MI.		23. MEAN ANNUAL RUNOFF				1.76		INCHES					
	20. LENGTH		13		MILES		AV. WIDTH		3.69		MILES		24. MEAN ANNUAL RUNOFF				4500(63)		AC. FT.	
	21. MAX. ELEV.				2175.0		MIN. ELEV.				1848.0		25. ANNUAL TEMP MEAN 65.9° RANGE 6° to 114°F							
	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.					
Oct. 1962		14.58		14.58		Contour		5-foot		1264		25,314		5.63						
Oct. 1968		6.0		20.58		Range (D)		23		1263		24,867		5.53						
						Range (D)		36		1262		24,734		5.50						
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								
Oct. 1962		24.96		3571		8484		52,061		3571		52,061								
Oct. 1968		25.47		4299		8921		25,793		3783		77,854								
						(1956)														
						(1965)														
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								
Oct. 1962		447		30.66		0.67		447		30.66		0.67								
Oct. 1968		133		22.17		0.48		580		28.18		0.61								
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								
Oct. 1962		50.3 ¹ / ₁		734		734		0.12		1.77		6961								
Oct. 1968		50.3 ² / ₁		528		668		0.11		2.29		4159								

26. DATE OF SURVEY		43. DEPTH DESIGNATION RANGE IN FEET BELOW, AND ABOVE, CREST ELEVATION														
		72-62	62-52	52-42	42-32	32-22	22-12	12-0								
		PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION														
Oct. 1962		-1.6	7.2	8.3	12.8	22.6	34.3	16.4								
Oct. 1968		1.6	7.9	8.6	13.3	24.1	30.0	14.5								
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														
Oct. 1962		4.2	20.8	33.7	21.2	9.9	5.3	5.5	0.8	-0.6	-0.8					
Oct. 1968		4.9	19.3	29.7	19.6	13.0	6.4	5.5	1.8	-0.2	-0.0					
45. RANGE IN RESERVOIR OPERATION																
WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW, AC.-FT.	WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW, AC.-FT.									
1948 ^{3/}	1875.11	1856.00	1554	1959	1896.08	1893.50	2194									
1949	1888.05	1873.40	3539	1960	1896.85	1892.34	2485									
1950	1887.56	1883.60	878	1961	1894.48	1890.16	3187									
1951	1896.53	1878.50	5245	1962	1893.27	1887.61	1171									
1952	1893.38	1887.60	1472	1963	1890.36	1884.75	2544									
1953	1894.36	1886.75	3791	1964	1888.05	1883.75	2664									
1954	1897.78	1891.01	3823	1965	1902.98	1885.65	8921									
1955	1895.55	1890.80	3617	1966	1897.23	1895.02	2914									
1956	1906.86	1892.45	8484	1967	1896.62	1889.62	1022									
1957	1902.44	1893.60	7825	1968	1901.26	1889.19	7964									
1958	1897.01	1895.52	2560													
46. ELEVATION-AREA-CAPACITY DATA																
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY								
1854	0	0	1910	794	14,582											
1856	3	3	1920	1262	24,734											
1860	12	34														
1870	95	518														
1880	170	1878														
1890	297	4156														
1900	504	8112														
47. REMARKS AND REFERENCES																
1/ Average of seven samples from main channel.																
2/ No samples taken in 1968, 1962 weights used for estimated weight.																
3/ Partial year (April through September).																
48. AGENCY MAKING SURVEY				Dept. of Army, CE, Fort Worth												
49. AGENCY SUPPLYING DATA				Dept. of Army, CE, Fort Worth												
						50. DATE		Aug 1974								