

RESERVOIR SEDIMENT
DATA SUMMARY
SCS-34 Rev. 6-66

McClellan Lake
NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

49 - 13

DATA SHEET NO.

DAM	1. OWNER U.S. Forest Service		2. STREAM McClellan Creek		3. STATE Texas			
	4. SEC. TWP. RANGE		5. NEAREST P.O. McLean		6. COUNTY Gray			
	7. LAT. 35° 12' 46" LONG 100° 52' 30"		8. TOP OF DAM ELEVATION 2936.48		9. SPILLWAY CREST ELEV. 2920.48			
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					6-1940		
	b. MULTIPLE USE	2920.48	316.41	4235.59	4235.59			
	c. POWER							
	d. WATER SUPPLY							
	e. IRRIGATION					16. DATE NORMAL OPER. BEGAN		
	f. CONSERVATION							
	g. INACTIVE							
17. LENGTH OF RESERVOIR 1.5 MILES			AV. WIDTH OF RESERVOIR 0.4 MILES					
WATERSHED	18. TOTAL DRAINAGE AREA 1/ 157.00 SQ. MI.		22. MEAN ANNUAL PRECIPITATION 21.0 (40) INCHES					
	19. NET SEDIMENT CONTRIBUTING AREA 86.0 SQ. MI.		23. MEAN ANNUAL RUNOFF 1.0 INCHES					
	20. LENGTH 40.0 MILES	AV. WIDTH 3.9 MILES	24. MEAN ANNUAL RUNOFF 4639.7 AC.-FT.					
	21. MAX. ELEV. 3450.00		MIN. ELEV. 2880.0		25. ANNUAL TEMP: MEAN RANGE			
	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.
6--40	-	-	Range (D)	15 R	316.41	4235.59	0.51	
7-31-79	39.1	39.1			316.23	3002.01	0.36	
SURVEY DATA	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	
	7-31-79	1233.58	31.55	0.37	1233.58	31.55	0.37	
	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
	7-31-79	41.7 (9)	333.2	333.2	0.75	29.12		

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
PERCENT OF TOTAL SEDIMENT LOCATED WITHIN REACH DESIGNATION														

46. RESERVOIR OPERATIONS Elevation-Area-Capacity Data					
YEAR	AREA	CAPACITY	YEAR	AREA	CAPACITY
Elevation	Area	Capacity	Elevation	Area	Capacity
1979 Capacity					
2898	6.55	4.37	2918	264.38	2139.69
2900	12.43	23.04	2920	293.02	2697.46
2902	19.77	54.96	2920.48	316.23	3002.01
2904	35.58	109.54			
2906	58.91	203.05			
2908	104.92	364.68			
2910	141.15	609.86			
2912	160.11	910.92			
2914	182.75	1253.53			
2916	220.14	1655.84			

46. ELEVATION-AREA-CAPACITY DATA								
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY
Original Capacity			2896	34.36	192.61	2914	225.73	2313.07
2880	0.11	0.07	2898	41.86	268.71	2916	257.17	2795.63
2882	1.02	1.05	2900	55.12	365.39	2918	285.45	3338.00
2884	3.57	5.38	2902	90.22	509.3	2920	302.75	3926.12
2886	5.49	14.37	2904	112.09	711.12	2920.48	316.41	4235.59
2888	8.34	28.10	2906	130.78	953.84			
2890	12.78	49.06	2908	144.73	1229.23			
2892	20.68	82.20	2910	164.75	1538.49			
2894	27.83	130.53	2912	192.45	1895.33			

47. REMARKS AND REFERENCES

1/ Includes 71 square miles of playa lakes, which are non-contributing.

Land Resource Area: Central Rolling Red Plains.
 Geology: Ogallala formation of the Tertiary system.

48. AGENCY MAKING SURVEY SCS, Temple, Texas
 49. AGENCY SUPPLYING DATA SCS, Temple, Texas
 50. DATE January, 1980