

RESERVOIR SEDIMENT
DATA SUMMARY

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

Lake Nocona

SCS-34 Rev. 6-66

NAME OF RESERVOIR

50 - 58

DATA SHEET NO.

DAM	1. OWNER N. Montague Water Sup. Dis.		2. STREAM Farmers Creek		3. STATE Texas			
	4. SEC. TWP. RANGE		5. NEAREST P. O. Nocona		6. COUNTY Montague			
	7. LAT. 33° 52' 48" N LONG. 97° 39' 01" W		8. TOP OF DAM ELEVATION 847.0'		9. SPILLWAY CREST ELEV. 827.0'			
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					4-61		
	b. MULTIPLE USE							
	c. POWER							
	d. WATER SUPPLY	827.0	1570.83	28,859.83	28,859.83	16. DATE NORMAL OPER. BEGAN		
	e. IRRIGATION							
	f. CONSERVATION					9-61		
g. INACTIVE								
17. LENGTH OF RESERVOIR 6.48 1/		MILES		AV. WIDTH OF RESERVOIR 0.38		MILES		
WATERSHED	18. TOTAL DRAINAGE AREA 92.18		SQ. MI.		22. MEAN ANNUAL PRECIPITATION 29.97		INCHES	
	19. NET SEDIMENT CONTRIBUTING AREA 89.73		SQ. MI.		23. MEAN ANNUAL RUNOFF 3.75		INCHES	
	20. LENGTH 28		MILES		AV. WIDTH 3.29		MILES	
	24. MEAN ANNUAL RUNOFF 18,434.85						AC.-FT.	
	21. MAX. ELEV. 1318.0		MIN. ELEV. 770.0		25. ANNUAL TEMP: MEAN 64°F RANGE 44°F - 84°F			
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.
	4-61	-	-			1570.83	28,859.83	1.57
	7-72	11.25	11.25	Range (D)	15 R	1570.83	27,382.19	1.49
	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	
	7-72	1477.64	131.35	1.46	1477.64	131.35	1.46	
	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	
7-72	37 (6)	1176.56	1176.56	0.46	5.12	--	--	

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	-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							
See attached table for Segment Data and Capacity Loss.															
47. REMARKS AND REFERENCES															
<p>Land Use: Cropland - 10%</p> <p>Grassland - 84%</p> <p>Miscellaneous - 6%</p> <p>Estimated trap efficiency = 96%</p> <p>Physiographic area: West Cross Timbers</p> <p><u>1/</u> West Arm = 6000 ft. Three East Arms = 2000 ft., 2600 ft., & 3000 ft.</p>															
48. AGENCY MAKING SURVEY Soil Conservation Service								50. DATE 3-73							
49. AGENCY SUPPLYING DATA Temple, Texas															