

U.S. DEPARTMENT OF AGRICULTURE
RESERVOIR SEDIMENTATION
DATA SUMMARY

Wheeler Farm Pond
NAME OF RESERVOIR

SOIL CONSERVATION SERVICE
50 -- 40
DATA SHEET NO.

DAM	1. OWNER Burney Estate			2. RIVER Canadian R.			3. STATE Texas									
	4. SEC. 2/ TWP. RANGE			5. NEAREST TOWN Canadian			6. COUNTY Hemphill									
	7. STREAM BED ELEV. 87.4			8. TOP OF DAM ELEV. 105.00			9. SPILLWAY CREST ELEV. 100.00									
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										12-16-44					
	b. POWER															
	c. WATER SUPPLY		100.00 1/		1.572				7.353		16. DATE NORMAL OPER. BEGAN					
	d. IRRIGATION										12-16-44					
	e. CONSERVATION															
	f. INACTIVE															
WATERSHED	17. LENGTH OF RESERVOIR 0.074 MILES				AV. WIDTH OF RESERVOIR 0.033 MILES											
	18. TOTAL DRAINAGE AREA 0.205 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 23.00 INCHES											
	19. NET SEDIMENT CONTRIBUTING AREA 0.205 SQ. MI.				23. MEAN ANNUAL RUNOFF 0.70 INCHES											
	20. LENGTH 0.55 MILES		AV. WIDTH 0.373 MILES		24. MEAN ANNUAL RUNOFF 37.33 AG.-FT.											
	21. MAX. ELEV.		MIN. ELEV.		25. CLIMATIC CLASSIFICATION Subhumid											
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.	
	12-16-44		-		-		Detail				1.572		7.353		35.87	
	4-16-58		13.33		13.33		Range		3		1.572		6.673		32.55	
	26. DATE OF SURVEY		34. PERIOD ANNUAL PRECIPITATION		35. PERIOD WATER INFLOW ACRE- FEET				36. WATER INFL. TO DATE AG.-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			
	12-16-44		-		-		-		-		-		-			
	4-16-58		0.680		0.051		0.249		0.680		0.051		0.249			
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		
12-16-44		-		-		-		-		-		-		-		
4-16-58		82.73		448.66		448.66		00.69		09.25		-		-		

1/ Assumed.

2/ Sec. 239. Gunter, Munson, Maddox, & Anderson, Block C survey.

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

C/I Ratio = (35.87 = 0.96) Est. trap efficiency = 97%
Sed. load accommodation adj for T. E. = 0.257
Vol. wt. ratio = 1.07. All samples exposed to air: dry pond.

48. AGENCY SUPPLYING DATA Soil Conservation Service 49. DATE Nov. 13, 1958