

RESERVOIR SEDIMENTATION  
DATA SUMMARY

Gelmer's Stock Pond

46 - 9

NAME OF RESERVOIR  
Watershed of

DATA SHEET NO.

DAM	1. OWNER H. J. Gelmer			2. RIVER/ Bois d'Arc Creek		3. STATE Oklahoma				
	4. SEC. 5 TWP. 27N RANGE 2E			5. NEAREST TOWN Blackwell		6. COUNTY Kay				
	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				
	d. FLOOD CONTROL					Oct. 1939				
	b. POWER									
	c. WATER SUPPLY		2.86	3.74	3.74	16. DATE NORMAL OPER. BEGAN				
	d. IRRIGATION									
	e. CONSERVATION					Oct. 1939				
	f. INACTIVE									
17. LENGTH OF RESERVOIR				MILES	AV. WIDTH OF RESERVOIR		MILES			
WATERSHED	18. TOTAL DRAINAGE AREA 0.31			SQ. MI.	22. MEAN ANNUAL PRECIPITATION 31.8 (24)		INCHES			
	19. NET SEDIMENT CONTRIBUTING AREA 0.31			SQ. MI.	23. MEAN ANNUAL RUNOFF		INCHES			
	20. LENGTH		MILES	AV. WIDTH		MILES	24. MEAN ANNUAL RUNOFF			
	21. MAX. ELEV.		MIN. ELEV.		25. CLIMATIC CLASSIFICATION			Humid		
	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 <sub>w</sub> RATIO AC-FT. PER SQ. MI.	
Oct. 1939		-	-	-	-	2.86	3.74	12.1		
Sept. 1940		1.0	1.0	Range detailed	7	2.86	3.43	11.1		
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 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		
Sept. 1940		0.31	0.31	1.0	0.31	0.31	1.0			
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		
Sept. 1940		65 *	1,416	1,416	8.29	8.29	-	-		

\* Assumed by comparison with average dry weights of sediment in other Great Plains reservoirs.

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. Dept. of Agriculture

48. AGENCY SUPPLYING DATA Fort Worth, Texas

49. DATE October 1950