

RESERVOIR SEDIMENTATION
DATA SUMMARY

Odell Lake

NAME OF RESERVOIR

53-15

DATA SHEET NO.

DAM	1. OWNER Odell Estate			2. RIVER Unnamed trib.			3. STATE Texas		
	4. SEC. - TWP. - RANGE -			5. NEAREST TOWN Hubbard			6. COUNTY Hill		
	7. STREAM BED ELEV. 78*			8. TOP OF DAM ELEV. 105*			9. SPILLWAY CREST ELEV. 100*		
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					July 1925			
	b. POWER								
	c. WATER SUPPLY	100*	8.4	75.1	75.1	16. DATE NORMAL OPER. BEGAN			
	d. IRRIGATION								
	e. CONSERVATION								
	f. INACTIVE					July 1925			
17. LENGTH OF RESERVOIR		0.26	MILES	AV. WIDTH OF RESERVOIR		0.08	MILES		
WATERSHED	18. TOTAL DRAINAGE AREA		0.56	SQ. MI.	22. MEAN ANNUAL PRECIPITATION		36.3*	INCHES	
	19. NET SEDIMENT CONTRIBUTING AREA		0.55	SQ. MI.	23. MEAN ANNUAL RUNOFF			INCHES	
	20. LENGTH		MILES	AV. WIDTH		MILES	24. MEAN ANNUAL RUNOFF		AG.-FT.
	21. MAX. ELEV.		MIN. ELEV.		25. CLIMATIC CLASSIFICATION Humid				
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.	
	July 1925	-	-	-	-	8.4	75.1	134	
	July 1949	24.0	24.0	Range Recon.	7	8.4	52.6	94	
	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		
	July 1949	22.5	0.94	1.71	22.5	0.94	1.71		
	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			
July 1949			1.25	30.0					

* Assumed or estimated

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														

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
 Recon. measurements on Odell Lake, 1949.

 Sediment is a dark gray silt in the lower part of the lake, grades to gray sandy silt at head of lake.

48. AGENCY SUPPLYING DATA Region 4, Soil Conservation Service 49. DATE March 1951
 U. S. Dept. of Agriculture
 Fort Worth, Texas