

U.S. DEPARTMENT OF AGRICULTURE
RESERVOIR SEDIMENTATION
DATA SUMMARY

Wetumka City Lake
 NAME OF RESERVOIR

SOIL CONSERVATION SERVICE
 45-24
 DATA SHEET NO.

DAM	1. OWNER City of Wetumka, Okla.		2. RIVER Salt Creek		3. STATE Oklahoma			
	4. SEC. 4 TWP. 9N RANGE 10E		5. NEAREST TOWN Wetumka		6. COUNTY Hughes & Okfuskee			
	7. STREAM BED ELEV. 70 1/2		8. TOP OF DAM ELEV. 106 local		9. SPILLWAY CREST ELEV. 100 1/2			
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					Jan. 1931		
	b. POWER							
	c. WATER SUPPLY	100 1/2	175	2,076	2,076	16. DATE NORMAL OPER. BEGAN		
	d. IRRIGATION					Jan. 1931		
	e. CONSERVATION							
	f. INACTIVE							
17. LENGTH OF RESERVOIR 0.98 MILES			AV. WIDTH OF RESERVOIR 0.13 MILES					
WATERSHED	18. TOTAL DRAINAGE AREA 4.15 SQ. MI.		22. MEAN ANNUAL PRECIPITATION 35 INCHES					
	19. NET SEDIMENT CONTRIBUTING AREA 3.88 SQ. MI.		23. MEAN ANNUAL RUNOFF 7.0 INCHES					
	20. LENGTH MILES		AV. WIDTH MILES		24. MEAN ANNUAL RUNOFF 373 ac.ft./sq.mi. AC.-FT.			
	21. MAX. ELEV.		MIN. ELEV.		25. CLIMATIC CLASSIFICATION			
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.
	Jan. 1931	-	-	-	-	175	2,076	500
	Feb. 18, 1954	23.2	23.2	Range Rec.	8	175	1,898	457
	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	d. MEAN ANNUAL	e. 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	d. TOTAL TO DATE	e. AV. ANNUAL	f. PER SQ. MI.-YEAR	
	Feb. 18, 1954	178	7.67	1.98	178	7.67	1.98	
	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	
Feb. 18, 1954	-	-	-	0.37	8.57	-	-	

1/ Elevations are local.

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

2/ C/I ratio 1.34 in 1931, 1.23 in 1954. Estimated trap efficiency 99%
 Total annual sediment load, adjusted for trap efficiency. 2.02 ac.ft./sq.mi.

48. AGENCY SUPPLYING DATA SCS, Ft. Worth, Texas 49. DATE Feb. 25, 1954