

RESERVOIR SEDIMENTATION
DATA SUMMARY

Perry City Lake
NAME OF RESERVOIR

46-19

DATA SHEET NO.

DAM	1. OWNER City of Perry			2. RIVER Cow Creek			3. STATE Oklahoma				
	4. SEC. 32 TWP. 21 RANGE 1			5. NEAREST TOWN 3-1/2 mi. SW Perry COUNTY Noble							
	7. STREAM BED ELEV. 1,029			8. TOP OF DAM ELEV. 1,087			9. SPILLWAY CREST ELEV. 1,077				
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					June 9, 1937					
	b. POWER										
	c. WATER SUPPLY	1,077	338	4,371	4,371	16. DATE NORMAL OPER. BEGAN					
	d. IRRIGATION										
	e. CONSERVATION										
	f. INACTIVE										
17. LENGTH OF RESERVOIR			1.82	MILES	AV. WIDTH OF RESERVOIR		0.02	MILES			
WATERSHED	18. TOTAL DRAINAGE AREA			16.67	SQ. MI.	22. MEAN ANNUAL PRECIPITATION			33.45	INCHES	
	19. NET SEDIMENT CONTRIBUTING AREA			16.14	SQ. MI.	23. MEAN ANNUAL RUNOFF			3.75	INCHES	
	20. LENGTH		MILES	AV. WIDTH		MILES	24. MEAN ANNUAL RUNOFF 200 a.f./sq.mi. SECT.				
	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/W RATIO AC- FT. PER SQ. MI.			
June 9, 1937	-	-	-	-	338	4,371	262				
May 12, 1955	17.9	17.9	Range Detail	12 Range	338	3,986	239				
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.								
May 12, 1955	385	21.51	1.33	385	21.51	1.33					
							a. PERIOD TOTAL	b. AV. ANNUAL	c. PER SQ. MI.- YEAR	a. TOTAL TO DATE	b. AV. ANNUAL
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				
May 12, 1955	83.5 (6)	2,419	2,419	0.49	8.81	-	-				

28. 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
Average Land Use: Idle-154 ac., cultivated - 6,868 ac., Pasture 3,847 ac.
C/I ratio = 1.25
Estimated trap efficiency = 98%
Total annual load, adjusted for trap efficiency = 1.36 ac.ft./sq.mi.

48. AGENCY SUPPLYING DATA SCS, Oklahoma City, Oklahoma

49. DATE May 20, 1955