

RESERVOIR SEDIMENTATION
DATA SUMMARY

Eldorado Reservoir
NAME OF RESERVOIR

16 - 7
DATA SHEET NO.

DAM	1. OWNER City of Eldorado			2. RIVER Wolf Creek			3. STATE Illinois		
	4. SEC. 13 TWP. 8S RANGE 6E			5. NEAREST TOWN Eldorado			6. COUNTY Saline		
	7. STREAM BED ELEV. app. 410			8. TOP OF DAM ELEV. -			9. SPILLWAY CREST ELEV. 426.15		
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					Oct. 1920			
	b. POWER								
	c. WATER SUPPLY	426.15	97.5	844.4	844.4	16. DATE NORMAL OPER. BEGAN			
	d. IRRIGATION								
	e. CONSERVATION								
	f. INACTIVE					Oct. 1920			
17. LENGTH OF RESERVOIR		0.6	MILES	AV. WIDTH OF RESERVOIR		0.25	MILES		
WATERSHED	18. TOTAL DRAINAGE AREA		2.23	SQ. MI.	22. MEAN ANNUAL PRECIPITATION		43.46	INCHES	
	19. NET SEDIMENT CONTRIBUTING AREA		1.87	SQ. MI.	23. MEAN ANNUAL RUNOFF			INCHES	
	20. LENGTH	1.9	MILES	AV. WIDTH	1.0	MILES	24. MEAN ANNUAL RUNOFF		AG.-FT.
	21. MAX. ELEV. 540		MIN. ELEV. 410		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.	
Oct. 1920	-	-	-	-	97.5	844.4	378		
Oct. 1949	29	29	Range recon.	7	92.9	726.0	326		
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		
	Oct. 1949	41.63 (1922-1949)							
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			
Oct. 1949	118.4	4.08	2.18	118.4	4.08	2.18			
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		
Oct. 1949	67 *	3,180	3,180	0.48	14.0				

* 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														

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

Original spillway crest elevation = 424.65
 Raised in 1941 to elevation = 426.15

All survey results on present (1941) spillway crest.

Illinois State Water Survey
 Urbana, Illinois

48. AGENCY SUPPLYING DATA

49. DATE June 15, 1950