

RESERVOIR SEDIMENTATION
 DATA SUMMARY

Salem City Reservoir

24-48

DATA SHEET NO.

DAM	1. OWNER City of Salem			2. RIVER Tributary to Crooked Creek			3. STATE Illinois					
	4. LONG. LAT. RANGE R2E			5. NEAREST TOWN Salem			6. COUNTY Marion					
	7. STREAM BED ELEV. 524			8. TOP OF DAM ELEV. 550			9. SPILLWAY CREST ELEV. 544.4					
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					1912						
	b. POWER											
	c. WATER SUPPLY	544.4	74.15	597.86	597.86	16. DATE NORMAL OPER. BEGAN						
	d. IRRIGATION											
	e. CONSERVATION											
WATERSHED	17. LENGTH OF RESERVOIR 1.143			MILES			AV. WIDTH OF RESERVOIR 535			FEET		
	18. TOTAL DRAINAGE AREA 4.02			SQ. MI.			22. MEAN ANNUAL PRECIPITATION (45) 40			INCHES		
	19. NET SEDIMENT CONTRIBUTING AREA 3.90			SQ. MI.			23. MEAN ANNUAL RUNOFF (20-40) 12			INCHES		
	20. LENGTH 5.0			MILES			AV. WIDTH .80			MILES		
	21. MAX. ELEV. 640			MIN. ELEV. 524			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.				
	1912	-	-	-	-	74.15	597.86	149				
	Aug. 1960	48	--	Reconn.	10	74.15	530.88	132				
	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					
	Aug. 1960	66.98	1.40	0.36	66.98	1.40	.36					
	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						
Aug. 1960	40.8 (12)	320	320	0.23	11.20							

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

48. AGENCY SUPPLYING DATA **Illinois State Water Survey Division** 49. DATE Jan. 31, 1962