

# RESERVOIR SEDIMENT DATA SUMMARY

Shoal Creek Str. No. 2  
NAME OF RESERVOIR

24-59  
DATA SHEET NO.

DAM	1. OWNER City of Litchfield		2. STREAM Shop Creek		3. STATE Illinois											
	4. SEC. 35 TWP. 10N RANGE 5W		5. NEAREST P.O. Raymond, IL		6. COUNTY Montgomery											
	7. LAT 39° 15' LONG. 89° 37'		8. TOP OF DAM ELEVATION 626.4		9. SPILLWAY CREST ELEV. 619.0											
RESERVOIR	10. STORAGE ALLOCATION		11. ELEVATION TOP OF POOL		12. ORIGINAL SURFACE AREA, ACRES		13. ORIGINAL CAPACITY, ACRE-FEET		14. GROSS STORAGE, ACRE-FEET		15. DATE STORAGE BEGAN					
	a. FLOOD CONTROL		619.0		592.7		5153.2		5514.2		4/64					
	b. MULTIPLE USE															
	c. POWER															
	d. WATER SUPPLY										16. DATE NORMAL OPER. BEGAN					
	e. IRRIGATION										1965					
	f. CONSERVATION															
g. INACTIVE		604.0		137.0		361.0		361.0								
WATERSHED	17. LENGTH OF RESERVOIR 1.94 1/2		MILES		AV. WIDTH OF RESERVOIR 0.48		MILES									
	18. TOTAL DRAINAGE AREA 39.24		SQ. MI.		22. MEAN ANNUAL PRECIPITATION 38.5		INCHES									
	19. NET SEDIMENT CONTRIBUTING AREA 38.31		SQ. MI.		23. MEAN ANNUAL RUNOFF 9.3		INCHES									
	20. LENGTH 9.70		MILES		AV. WIDTH 4.05		MILES		24. MEAN ANNUAL RUNOFF 19,462		AC.-FT.					
	21. MAX. ELEV. 671		MIN. ELEV. 589		25. ANNUAL TEMP.: MEAN 54°f. RANGE Jan. 32°f. - Jul											
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/I. RATIO 78°f. AC.-FT. PER AC.-FT.	
	4/64		-		-		-		-		592.7		5514.2		0.28	
	4/20/77		13.0		13.0		Range (D)		16 (R)		592.7		5363.7		0.28	
	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 CAPACITY LOSS, 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			
	4/20/77		150.53		11.58		0.30		150.53		11.58		0.30			
	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. ANN.		b. TOT. TO DATE		a. PERIOD		b. TOT. TO DATE				
4/20/77		50.3		331		331		0.21		2.73						

25. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET BELOW, AND ABOVE, 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

1/ Reservoir composed of two main arms; north arm is 1.38 mi. long, west arm is 0.56 mi. long.

48. AGENCY MAKING SURVEY      Soil Conservation Service  
 49. AGENCY SUPPLYING DATA      Soil Conservation Service  
 50. DATE      2-20-79