

RESERVOIR SEDIMENT
DATA SUMMARY

SCS-34 Rev. 6-66

Lake Charleston

NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

17-24

DATA SHEET NO.

DAM	1. OWNER City of Charleston			2. STREAM Embarass			3. STATE Illinois											
	4. SEC. 25 TWP. 12N RANGE 9E			5. NEAREST P.O. Charleston			6. COUNTY Coles											
	7. LAT. " LONG. "			8. TOP OF DAM ELEVATION			9. SPILLWAY CREST ELEV. 580											
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										1947							
	b. MULTIPLE USE																	
	c. POWER																	
	d. WATER SUPPLY		580		404		2280		2280		16. DATE NORMAL OPER. BEGAN							
	e. IRRIGATION										1947							
	f. CONSERVATION																	
g. INACTIVE																		
17. LENGTH OF RESERVOIR			2.5			MILES			AV. WIDTH OF RESERVOIR			.25			MILES			
WATERSHED	18. TOTAL DRAINAGE AREA			811			SQ. MI.			22. MEAN ANNUAL PRECIPITATION			INCHES					
	19. NET SEDIMENT CONTRIBUTING AREA			811			SQ. MI.			23. MEAN ANNUAL RUNOFF			INCHES					
	20. LENGTH			48			MILES			24. MEAN ANNUAL RUNOFF			466,000			AC.-FT.		
	21. MAX. ELEV.			MIN. ELEV.			25. ANNUAL TEMP: MEAN			RANGE								
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, AC.-FT. PER AC.-FT.			
	1960		13		13		range		9		404		1395		0.0030			
	1974		14		27		range		9		404		865		0.0019			
	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					
	1960				_____		_____		_____		_____		_____					
	1974				466,000		_____		_____		466,000		_____					
	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					
	1960		885		68.1		.084		885		68.1		.084					
1974		530		37.9		.047		1415		52.4		.065						
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						
1960		_____		108		108		3.0		38.8		_____						
1974		59.3		60		84		2.3		62.1		_____						

26. 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															
48. AGENCY MAKING SURVEY Illinois State Water Survey															
49. AGENCY SUPPLYING DATA Illinois State Water Survey															
														50. DATE 7/15/76	