

**RESERVOIR SEDIMENTATION
 DATA SUMMARY**

Lake Ashley

16-22a

Unnamed Reservoir

DATA SHEET NO.

DAM	1. OWNER City of Ashley			2. RIVER the Muddy River			3. STATE Illinois									
	4. LONG. 14 LAT. 28 RANGE 1W			5. NEAREST TOWN Ashley			6. COUNTY Washington									
	7. STREAM BED ELEV. 511			8. TOP OF DAM ELEV. 530			9. SPILLWAY CREST ELEV. 521.65									
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										1941					
	b. POWER															
	c. WATER SUPPLY		521.65		12		150		150		16. DATE NORMAL OPER. BEGAN					
	d. IRRIGATION															
	e. CONSERVATION															
	f. INACTIVE															
WATERSHED	17. LENGTH OF RESERVOIR .312 MILES				AV. WIDTH OF RESERVOIR .0641 FEET											
	18. TOTAL DRAINAGE AREA 1.24 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 40 INCHES											
	19. NET SEDIMENT CONTRIBUTING AREA 1.22 SQ. MI.				23. MEAN ANNUAL RUNOFF 11.5 INCHES											
	20. LENGTH 1.50 MILES AV. WIDTH .813 MILES				24. MEAN ANNUAL RUNOFF 748 AC.-FT.											
	21. MAX. ELEV. 578 MIN. ELEV. 511				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.	
	Aug. 1954		14		14		DR		8		18 18		150 138		121 111	
	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		b. 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		a. TOTAL TO DATE		b. AV. ANNUAL		c. PER SQ. MI.-YEAR			
	Aug. 1954		12		.86		.69		12		.86		.69			
	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. 1954		44.5 (6)		692		692		.57 7.97							

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														
1954	18.5	18.5	14.5	14.0	14.0	6.5	5.0	4.0	2.5	2.5					

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
*522	21	45						
520	18	37						
518	14.7	26						
516	11.7	18						
514	9.7	11						
512	7.0	5.5						
510	4.5	1.5						

47. REMARKS AND REFERENCES : Effective spillway elevation was raised 1.65' from 520 to 521.65*