

**RESERVOIR SEDIMENTATION
 DATA SUMMARY**

West Frankfort Reservoir(New)

16-29

NAME OF RESERVOIR

DATA SHEET NO.

DAM	1. OWNER <u>Ill. Cities Water Co.</u>			2. RIVER <u>Stevens Creek</u>			3. STATE <u>Illinois</u>									
	4. LONG. <u>18</u> LAT. <u>7S</u> RANGE <u>1E</u>			5. NEAREST TOWN <u>W. Frankfort</u>			6. COUNTY <u>Franklin</u>									
	7. STREAM BED ELEV. <u>415'*</u>			8. TOP OF DAM ELEV. <u>443'*</u>			9. SPILLWAY CREST ELEV. <u>438'*</u>									
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										1945					
	b. POWER															
	c. WATER SUPPLY		<u>438'*</u>		<u>213.49</u>		<u>2654.7</u>		<u>2654.7</u>		16. DATE NORMAL OPER. BEGAN					
	d. IRRIGATION															
	e. CONSERVATION															
	f. INACTIVE															
WATERSHED	17. LENGTH OF RESERVOIR <u>2.958</u> MILES				AV. WIDTH OF RESERVOIR <u>0.113</u> FEET											
	18. TOTAL DRAINAGE AREA <u>7.622</u> SQ. MI.				22. MEAN ANNUAL PRECIPITATION (<u>45</u>) <u>42</u> INCHES											
	19. NET SEDIMENT CONTRIBUTING AREA <u>7.288</u> SQ. MI.				23. MEAN ANNUAL RUNOFF (<u>20-40</u>) <u>13</u> INCHES											
	20. LENGTH <u>4.141</u> MILES		AV. WIDTH <u>1.841</u> MILES		24. MEAN ANNUAL RUNOFF <u>5283.0</u> AG.-FT.											
	21. MAX. ELEV. <u>520'*</u>		MIN. ELEV. <u>415'*</u>		25. CLIMATIC CLASSIFICATION <u>Humid</u>											
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 AG.-FT. PER SQ. MI.	
	July, 1945 July, 1960		15		15		RD		.14		213.49 213.49		2654.7 2390.9		348.29 313.68	
	26. DATE OF SURVEY		34. PERIOD ANNUAL PRECIPITATION		35. PERIOD WATER INFLOW ACRE- FEET				36. WATER INFL. TO DATE AG.-FT.							
					a. MEAN ANNUAL		b. MAX. ANNUAL		c. PERIOD TOTAL		a. 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			
	July, 1960		263.8		17.59		2.41		263.8		17.59		2.41			
	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			
July, 1960		35.9		1884.4		1884.4		0.7 9.9		--		--				

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															
49. DATE 10-19-61															