

New Mt. Olive Reservoir

24-43

DATA SHEET NO.

**RESERVOIR SEDIMENTATION  
 DATA SUMMARY**

NAME OF RESERVOIR  
 Unnamed 1915-87

DAM	1. OWNER City of Mt. Olive		2. RIVER Cahokia Creek		3. STATE Illinois			
	4. LONG. 27° 28' LAT. 8N RANGE 6W		5. NEAREST TOWN White City		6. COUNTY Macoupin			
	7. STREAM BED ELEV. 578		8. TOP OF DAM ELEV. 605		9. SPILLWAY CREST ELEV. 600			
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					1938		
	b. POWER							
	c. WATER SUPPLY	600	55.7	432.8	432.8	16. DATE NORMAL OPER. BEGAN		
	d. IRRIGATION							
	e. CONSERVATION							
	f. INACTIVE							
WATERSHED	17. LENGTH OF RESERVOIR 0.66 MILES		AV. WIDTH OF RESERVOIR 0.132 FEET					
	18. TOTAL DRAINAGE AREA 5.21 SQ. MI.		22. MEAN ANNUAL PRECIPITATION (45) 38 INCHES					
	19. NET SEDIMENT CONTRIBUTING AREA 5.12 SQ. MI.		23. MEAN ANNUAL RUNOFF (20-40) 9.5 INCHES					
	20. LENGTH 3.2 MILES AV. WIDTH 1.63 MILES		24. MEAN ANNUAL RUNOFF 2639.7 AC.-FT.					
	21. MAX. ELEV. 700 MIN. ELEV. 578		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.
	1938	-	-	-	-	55.7	432.8	83.07
	June 1958	20	20	RD	11	55.7	335.3	64.36
	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 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	
	June 1958	97.5	4.87	0.94	97.5	4.87	0.94	
	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		
June 1958	52.35 (15)	1071.79	1071.79	1.1	22.5			

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

1/ Estimated from U.S.G.S. Quad. Sheets

48. AGENCY SUPPLYING DATA Illinois State Water Survey 49. DATE 6 Oct. 1961