

Lake Williamson

(Artic Pond)

24-1a

RESERVOIR SEDIMENTATION
 DATA SUMMARY

NAME OF RESERVOIR

DATA SHEET NO.

DAM	1. OWNER MEYERKREY 1/			2. RIVER Trib. of Honey Creek STATE Illinois				
	4. LONG. Sec. 11 Twp. 9N RANGE 7W			5. NEAREST TOWN Carlinville 6. COUNTY Macoupin				
	7. STREAM BED ELEV. *585			9. SPILLWAY CREST ELEV. *610				
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					1922		
	b. POWER							
	c. WATER SUPPLY					16. DATE NORMAL OPER. BEGAN		
	d. IRRIGATION							
	e. CONSERVATION	*610	15.9	175.6	175.6			
	f. INACTIVE							
WATERSHED	17. LENGTH OF RESERVOIR 0.44 MILES		AV. WIDTH OF RESERVOIR 0.06 FEET					
	18. TOTAL DRAINAGE AREA 0.53 SQ. MI.		22. MEAN ANNUAL PRECIPITATION 39 INCHES					
	19. NET SEDIMENT CONTRIBUTING AREA 0.51 SQ. MI.		23. MEAN ANNUAL RUNOFF 10.5 INCHES					
	20. LENGTH 1.3 MILES		AV. WIDTH 0.39 MILES		24. MEAN ANNUAL RUNOFF 286 AQ.-FT.			
	21. MAX. ELEV. 645		MIN. ELEV.		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 AQ.-FT. PER SQ. MI.
	1922	-	-	-	-	15.9	175.6	331
	1949	27	27	D. Range	7	15.9	159.5	301
	1954	5	32	D. Range	7	15.9	152.2	287
	1961	7	39	D. Range	7	15.9	147.6	278
	26. DATE OF SURVEY	34. PERIOD ANNUAL PRECIPITATION	35. PERIOD WATER INFLOW ACRE- FEET			36. WATER INFL. TO DATE AQ.-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	d. TOTAL TO DATE	e. AV. ANNUAL	f. PER SQ. MI.-YEAR		
1949	16.1	0.60	1.18	16.1	0.60	1.18		
1954	7.4	1.48	2.90	23.5	0.73	1.43		
1961	4.5	0.64	1.25	28.0	0.72	1.41		
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	
1949	46.24	1188	1188	0.34	9.16			
1954	46.24	2921	1440	0.42	13.40			
1961	46.24 (18)	1259	1420	0.41	15.96			

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

Illinois

48. AGENCY SUPPLYING DATA State Water Survey Division 49. DATE 11 March 55