

RESERVOIR SEDIMENTATION
DATA SUMMARY

Patterson Lake

17-15

NAME OF RESERVOIR
Unnamed Tributary of

DATA SHEET NO.

DAM	1. OWNER Ill. Central R. R.		2. RIVER Dismal Creek		3. STATE Illinois			
	4. SEC. 13 TWP. 5N RANGE 4E		5. NEAREST TOWN Edgewood		6. COUNTY Clay			
	7. STREAM BED ELEV. 507		8. TOP OF DAM ELEV. 540		9. SPILLWAY CREST ELEV. 535			
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					1926		
	b. POWER							
	c. WATER SUPPLY	538'	29.83	316.75	316.75	16. DATE NORMAL OPER. BEGAN		
	d. IRRIGATION							
	e. CONSERVATION							
	f. INACTIVE							
WATERSHED	17. LENGTH OF RESERVOIR 1.06 MILES		AV. WIDTH OF RESERVOIR 0.044 MILES					
	18. TOTAL DRAINAGE AREA 0.959 SQ. MI.		22. MEAN ANNUAL PRECIPITATION (45) 40 INCHES					
	19. NET SEDIMENT CONTRIBUTING AREA 0.912 SQ. MI.		23. MEAN ANNUAL RUNOFF (20-40) 12 INCHES					
	20. LENGTH 1.68 MILES AV. WIDTH 0.571 MILES		24. MEAN ANNUAL RUNOFF 613.8 AC.-FT.					
	21. MAX. ELEV. 575'		MIN. ELEV. 507'		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.
	1926 July 1959	- 33	- 33	- DR	- 22	29.83 29.83	316.75 281.09	330.3 293.1
	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	
	July 1959	35.54	1.08	1.18	35.54	1.08	1.18	
	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 1959	48.54 (23)	1247.5	1247.5	0.3	11.2			

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