

**RESERVOIR SEDIMENTATION
 DATA SUMMARY**

Ayers Reservoir

24-28

Unnamed Tr. 18. 81

DATA SHEET NO.

DAM	1. OWNER C.B. & Q. R.R.		2. RIVER Shoal Creek		3. STATE Illinois			
	4. LONG. 15, 16 ^N RANGE 3 ^W		5. NEAREST TOWN Ayers		6. COUNTY Bond			
	7. STREAM BED ELEV. 534 \downarrow		8. TOP OF DAM ELEV. 561 \downarrow		9. SPILLWAY CREST ELEV. 555 \downarrow			
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					1906		
	b. POWER							
	c. WATER SUPPLY	555 \downarrow	26.4	200	200	16. DATE NORMAL OPER. BEGAN		
	d. IRRIGATION							
	e. CONSERVATION							
	f. INACTIVE							
WATERSHED	17. LENGTH OF RESERVOIR 0.433 MILES		AV. WIDTH OF RESERVOIR 0.085 FEET					
	18. TOTAL DRAINAGE AREA 1.43 SQ. MI.		22. MEAN ANNUAL PRECIPITATION (45) 39 INCHES					
	19. NET SEDIMENT CONTRIBUTING AREA 1.39 SQ. MI.		23. MEAN ANNUAL RUNOFF (20-40) 10 INCHES					
	20. LENGTH 1.93 MILES		AV. WIDTH 0.72 MILES		24. MEAN ANNUAL RUNOFF 762.4 AC.- FT.			
	21. MAX. ELEV. 610 \downarrow		MIN. ELEV. 534 \downarrow		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. 1958	52	52	RT	11	26.4 26.4	200 150	139.9 104.9
	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	
	Aug. 1958	50	0.96	0.69	50	0.96	0.69	
	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. 1958	51.03 (13)	766.87	977.87	0.5	25.0		

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