

**RESERVOIR SEDIMENT
DATA SUMMARY**

SCS-34 Rev. 5-62

Waldron Lake

NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

45-37

DATA SHEET NO.

DAM	1. OWNER City of Waldron, Arkansas				2. STREAM Square Rock Creek				3. STATE Arkansas			
	4. SEC. 30 TWP. 4N RANGE 29W				5. NEAREST TOWN Waldron				6. COUNTY Scott			
	7. STREAM BED ELEVATION 690.1				8. TOP OF DAM ELEVATION 720.0				9. SPILLWAY CREST ELEV. 712.24			
RESERVOIR	10. STORAGE ALLOCATION		11. ELEVATION TOP OF POOL		12. ORIGINAL SURFACE AREA ACRES		13. ORIGINAL CAPACITY ACRE-FEET		14. GROSS STORAGE ACRE-FEET		15. DATE STORAGE BEGAN	
	a. MULTIPLE USE										March 1943	
	b. FLOOD CONTROL											
	c. POWER											
	d. WATER SUPPLY		712.24		43.96		361.44		361.44		16. DATE NORMAL OPER. BEGAN	
	e. IRRIGATION											
	f. CONSERVATION										March 1943	
	g. SEDIMENT											
h. INACTIVE												
WATERSHED	17. LENGTH OF RESERVOIR 0.83 MILES				AV. WIDTH OF RESERVOIR 0.15 MILES							
	18. TOTAL DRAINAGE AREA 7.65 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 45.56 INCHES							
	19. NET SEDIMENT CONTRIBUTING AREA 7.58 SQ. MI.				23. MEAN ANNUAL RUNOFF 15.0 INCHES							
	20. LENGTH 8.43 MILES		AV. WIDTH 0.9 MILES		24. MEAN ANNUAL RUNOFF 6120 AC.-FT.							
	21. MAX. ELEV. 1977.0		MIN. ELEV. 690.1		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.			
	March 1943		-	-	-	-	43.96	361.44	47.25			
	10-12-1961		18.58	18.58	Contour (D)	4	43.96	325.78	42.59			
	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				
	10-12-61		35.66	1.92	0.25	35.66	1.92	0.25				
	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. AN.	b. TOT. TO DATE	a. PERIOD	b. TOT. TO DATE				
10-12-61		-	-	-	0.53	9.87	-	-				

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. 1961 CAPACITY			ELEVATION-AREA-CAPACITY DATA					
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY
692	0.36	0.24	ORIGINAL CAPACITY					
696	3.30	6.45	692	0.80	0.53			
700	9.90	31.70	696	4.43	10.17			
704	16.30	83.53	700	12.23	42.16			
708	28.85	172.60	704	20.15	106.22			
712.24	43.96	325.78	708	29.95	205.73			
			712.24	43.96	361.44			

47. REMARKS AND REFERENCES

Cover - Woodland - 95%; Grassland - 5%.

48. AGENCY MAKING SURVEY
 49. AGENCY SUPPLYING DATA Soil Conservation Service

Revised
 50. DATE January 30, 1962