

**RESERVOIR SEDIMENT
DATA SUMMARY**

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

SCS-34 Rev. 6-66

Davis
NAME OF RESERVOIR

46-41
DATA SHEET NO.

DAM	1. OWNER E. C. Davis			2. STREAM Pawnee			3. STATE Kansas					
	4. SEC. 34 TWP. 22 RANGE 30W			5. NEAREST P. O. Kalvesta			6. COUNTY Finney					
	7. LAT. 38° 05' 00" LONG. 100° 38' 00"			8. TOP OF DAM ELEVATION 33.50*			9. SPILLWAY CREST ELEV. 29.00*					
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. FLOOD CONTROL										January 1951	
	b. MULTIPLE USE										16. DATE NORMAL OPER. BEGAN	
	c. POWER										January 1951	
	d. WATER SUPPLY		29.00		17.28		104.82		104.82			
	e. IRRIGATION											
	f. CONSERVATION											
	g. INACTIVE											
WATERSHED	17. LENGTH OF RESERVOIR 0.32 MILES				AV. WIDTH OF RESERVOIR 0.09 MILES							
	18. TOTAL DRAINAGE AREA 2.40 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 18 INCHES							
	19. NET SEDIMENT CONTRIBUTING AREA 2.37 SQ. MI.				23. MEAN ANNUAL RUNOFF 0.25 INCHES							
	20. LENGTH 2.80 MILES		AV. WIDTH 0.85 MILES		24. MEAN ANNUAL RUNOFF 32 AC.-FT.							
	21. MAX. ELEV.		MIN. ELEV.		25. ANNUAL TEMP: MEAN 55 RANGE -32 to 113							
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/I. RATIO, AC.-FT. PER AC.-FT.		
	September 6 1967		16.75	16.75	Range	6	17.28	Original 104.82 Present 97.94		3.28 3.06		
	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 CAPACITY LOSS, 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				
	September 6 1967		6.88	0.41	0.17	6.88	0.41	0.17				
	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. ANN.	b. TOT. TO DATE	a. PERIOD	b. TOT. TO DATE				
September 6 1967		60*	222	222	0.39	6.60						

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET BELOW, AND ABOVE, 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

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

* Assumed

Cropland = 80% with 0 - 2% slopes
 Pasture (good) = 20% with 2 - 4% slopes
 T.E. = 78%
 Watershed yield = 0.22 ac. ft./sq. mi./yr.

48. AGENCY MAKING SURVEY
 49. AGENCY SUPPLYING DATA U.S.D.A., Soil Conservation Service 50. DATE September 6, 1967