

**RESERVOIR SEDIMENT
DATA SUMMARY**

SCS-34 Rev. 6-62

Howard City Lake

NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

45-38

DATA SHEET NO.

Arkansas River Basin

DAM	1. OWNER City of Howard			2. STREAM Game Creek			3. STATE Kansas									
	4. SEC. S.V.5 TWP. 30 RANGE 11E			5. NEAREST TOWN Howard			6. COUNTY Elk									
	7. STREAM BED ELEVATION 965.0			8. TOP OF DAM ELEVATION 1000.0			9. SPILLWAY CREST ELEV. 990.0									
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										Sept. 1936					
	b. FLOOD CONTROL															
	c. POWER															
	d. WATER SUPPLY		990		61		771		771		16. DATE NORMAL OPER. BEGAN					
	e. IRRIGATION										Sept. 1936					
	f. CONSERVATION															
	g. SEDIMENT															
h. INACTIVE																
WATERSHED	17. LENGTH OF RESERVOIR 0.85 MILES				AV. WIDTH OF RESERVOIR 0.12 MILES											
	18. TOTAL DRAINAGE AREA 10.16 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 31 INCHES											
	19. NET SEDIMENT CONTRIBUTING AREA 10.06 SQ. MI.				23. MEAN ANNUAL RUNOFF 1.5 INCHES											
	20. LENGTH 3.0 MILES		AV. WIDTH 3.4 MILES		24. MEAN ANNUAL RUNOFF 2438 AC.-F.T.											
	21. MAX. ELEV. 1130		MIN. ELEV. 965		25. CLIMATIC CLASSIFICATION											
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.	
	Sept. 1965		28.9		28.9		Range		15		61		601.7		60.1	
	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			
	Sept. 1965		31													
	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			
	Sept. 1965		166.3		5.75		0.57		166.3		5.75		0.57			
	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			
Sept. 1965		60*		745		745		0.76 21.6								

*Assumed average wt.

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

Trap eff. = 98 percent
Land - Gently Rolling

48. AGENCY MAKING SURVEY
49. AGENCY SUPPLYING DATA USDA Soil Conservation Service 50. DATE October 1965