

**RESERVOIR SEDIMENTATION
 DATA SUMMARY**

Kapke Reservoir
 NAME OF RESERVOIR

32-9
 DATA SHEET NO.

DAM	1. OWNER <u>C. E. Kapke</u>			2. RIVER <u>Trib of Little Blue R.</u>		3. STATE <u>Nebraska</u>		
	4. LONG. <u>S 8</u> LAT. <u>T 2N</u> RANGE <u>1E</u>			5. NEAREST TOWN <u>Gladstone</u>		6. COUNTY <u>Jefferson</u>		
	7. STREAM BED ELEV. <u>91.3</u>			8. TOP OF DAM ELEV. <u>103</u>		9. SPILLWAY CREST ELEV. <u>100*</u>		
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					1913		
	b. POWER							
	c. WATER SUPPLY	<u>100</u>	<u>2.82</u>	<u>9.806</u>	<u>9.806</u>	16. DATE NORMAL OPER. BEGAN		
	d. IRRIGATION					1913		
	e. CONSERVATION							
	f. INACTIVE							
17. LENGTH OF RESERVOIR			<u>0.260</u> MILES	AV. WIDTH OF RESERVOIR		<u>.021</u> FEET		
WATERSHED	18. TOTAL DRAINAGE AREA (<u>196 Ac</u>)		<u>.306</u> SQ. MI.	22. MEAN ANNUAL PRECIPITATION		<u>28.84</u> INCHES		
	19. NET SEDIMENT CONTRIBUTING AREA		<u>.302</u> SQ. MI.	23. MEAN ANNUAL RUNOFF		INCHES		
	20. LENGTH	MILES	AV. WIDTH	MILES	24. MEAN ANNUAL RUNOFF			
	21. MAX. ELEV.		MIN. ELEV. <u>91.3</u>		25. CLIMATIC CLASSIFICATION			
								AG.-FT.
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.
	<u>1913</u>	<u>0</u>	<u>0</u>	<u>-</u>	<u>-</u>	<u>2.82</u>	<u>9.806</u>	<u>32.05</u>
	<u>1958</u>	<u>45</u>	<u>45</u>	<u>Range Detailed</u>	<u>15</u>	<u>2.82</u>	<u>5.179</u>	<u>16.92</u>
	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	
	<u>1958</u>	<u>4.627</u>	<u>0.103</u>	<u>0.337</u>	<u>4.627</u>	<u>0.103</u>	<u>0.337</u>	
		<u>0.186 1/</u>	<u>0.004</u>	<u>0.013</u>	<u>0.186</u>	<u>0.004</u>	<u>0.013</u>	
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	
<u>Aug. 1958</u>	<u>65 2/</u>	<u>477</u>	<u>477</u>	<u>1.0</u>	<u>47.2</u>			
		<u>18 1/</u>	<u>18</u>					

SWC Form 30 * Assumed elevation 2/ Assumed av. dry weight
 Apr 1958 1/ Sediment above crest

25. 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
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