

RESERVOIR SEDIMENTATION
DATA SUMMARY

Kuhns Reservoir #1
NAME OF RESERVOIR

32-10
DATA SHEET NO.

DAM	1. OWNER Bernice Kuhns			2. RIVER Bloody Run			3. STATE Nebraska			
	4. SEC. 10 TWP. 3N RANGE 8E			5. NEAREST TOWN Virginia			6. COUNTY Gage			
	7. STREAM BED ELEV. 86.8			8. TOP OF DAM ELEV.			9. SPILLWAY CREST ELEV. 100.0*			
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					1899				
	b. POWER									
	c. WATER SUPPLY	100.0	11.2	70.69	70.69	16. DATE NORMAL OPER. BEGAN				
	d. IRRIGATION									
	e. CONSERVATION									
	f. INACTIVE					1899				
WATERSHED	17. LENGTH OF RESERVOIR 0.379 MILES			AV. WIDTH OF RESERVOIR 0.072 MILES						
	18. TOTAL DRAINAGE AREA (270 Ac) .422 SQ. MI.			22. MEAN ANNUAL PRECIPITATION 27.33 INCHES						
	19. NET SEDIMENT CONTRIBUTING AREA .104 SQ. MI.			23. MEAN ANNUAL RUNOFF INCHES						
	20. LENGTH MILES		AV. WIDTH MILES		24. MEAN ANNUAL RUNOFF AC-FT.					
	21. MAX. ELEV.		MIN. ELEV. 86.8		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.		
	1899	. 0	0	-	-	11.2	70.7	167.5		
	1956	57	57	Range Detailed	16	11.2	30.8	73.0		
	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			
	May '56	39.9	.7	1.66	39.9	.7	1.66			
		1/0.86	0.015	0.036	0.86	0.015	0.036			
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			
May, 1956	70*	2531	2531	0.99	56.4					
		55 1/	55	0.0002	0.1					

* Assumed Elevation
1/ Sediment above crest

* Assumed av. dry weight

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

48. AGENCY SUPPLYING DATA Soil Conservation Service

49. DATE May, 1956