

**RESERVOIR SEDIMENT
DATA SUMMARY**
SCS-34 Rev. 6-62

Kenneth Smith Pond
NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

35-52
DATA SHEET NO.

DAM	1. OWNER <u>Kenneth Smith</u>			2. STREAM <u>Platte</u>			3. STATE <u>Nebraska</u>									
	4. SEC. <u>15</u> TWP. <u>13N</u> RANGE <u>23W</u>			5. NEAREST TOWN <u>Cozad</u>			6. COUNTY <u>Custer</u>									
	7. STREAM BED ELEVATION			8. TOP OF DAM ELEVATION			9. SPILLWAY CREST ELEV. <u>100.0*</u>									
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										1940					
	b. FLOOD CONTROL															
	c. POWER															
	d. WATER SUPPLY															
	e. IRRIGATION										16. DATE NOR-MAL OPER. BEGAN					
	f. CONSERVATION						5.97		5.97		1940					
	g. SEDIMENT															
h. INACTIVE																
17. LENGTH OF RESERVOIR <u>0.115</u> MILES					AV. WIDTH OF RESERVOIR _____ MILES											
18. TOTAL DRAINAGE AREA <u>0.49</u> SQ. MI.					22. MEAN ANNUAL PRECIPITATION _____ INCHES											
19. NET SEDIMENT CONTRIBUTING AREA <u>0.49</u> SQ. MI.					23. MEAN ANNUAL RUNOFF _____ INCHES											
20. LENGTH <u>0.83</u> MILES					AV. WIDTH <u>0.60</u> MILES		24. MEAN ANNUAL RUNOFF _____ AC.-FT.									
21. MAX. ELEV. _____					MIN. ELEV. _____		25. CLIMATIC CLASSIFICATION _____									
WATERSHED	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.	
	1940		0		0		Range		4		2.20		5.97		12.2	
	10-2-64		24		24		Range		4		2.16		4.99		10.2	
	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			
	10-2-64		.98		0.04		0.08		.98		0.04		0.08			
	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		
12-2-64		95		166		166		0.68		16.4						

* Elevation assumed.

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
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
 Drainage is from rangeland.

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

50. DATE 10-10-64