

RESERVOIR SEDIMENT  
DATA SUMMARY

Bondegard Stock Pond  
NAME OF RESERVOIR

SCS-34 Rev. 6-66

33-14

DATA SHEET NO.

DAM	1. OWNER <u>Lloyd Bondegard</u>				2. STREAM <u>Sedgewick Draw</u>		3. STATE <u>Nebraska</u>	
	4. SEC. <u>11</u>		TWP. <u>12 N</u>		RANGE <u>47W</u>		5. NEAREST P. O. <u>Lodgepole, Nebr.</u>	
	7. LAT. . . . .		" LONG. . . . .		8. TOP OF DAM ELEVATION <u>99.5</u>		9. SPILLWAY CREST ELEV. <u>95.5</u>	
RESERVOIR	10. STORAGE ALLOCATION		11. ELEVATION TOP OF POOL		12. ORIGINAL SURFACE AREA, ACRES		13. ORIGINAL CAPACITY, ACRE-FEET	
	a. FLOOD CONTROL							
	b. MULTIPLE USE							
	c. POWER							
	d. WATER SUPPLY							
	e. IRRIGATION							
	f. CONSERVATION							
g. INACTIVE *		<u>95.5</u>		<u>5.52</u>		<u>27.68</u>		
14. GROSS STORAGE, ACRE-FEET						<u>27.68</u>		
15. DATE STORAGE BEGAN						<u>1952</u>		
16. DATE NORMAL OPER. BEGAN						<u>1952</u>		
WATERSHED	17. LENGTH OF RESERVOIR				MILES		AV. WIDTH OF RESERVOIR	
	18. TOTAL DRAINAGE AREA				<u>1.50</u>		SQ. MI.	
	19. NET SEDIMENT CONTRIBUTING AREA				<u>1.50</u>		SQ. MI.	
	20. LENGTH <u>1.9</u>		MILES		AV. WIDTH <u>0.8</u>		MILES	
	21. MAX. ELEV.		MIN. ELEV.		25. ANNUAL TEMP: MEAN RANGE			
SURVEY DATA	25. DATE OF SURVEY		27. PERIOD YEARS		28. ACCL. YEARS		29. TYPE OF SURVEY	
	Dec. 11, 1967		15		15		Range	
							30. NO. OF RANGES OR CONTOUR INT.	
							31. SURFACE AREA, ACRES	
							32. CAPACITY, ACRE-FEET	
							Original <u>27.68</u>	
							<u>23.88</u>	
							33. C/I. RATIO, AC.-FT. PER AC.-FT.	
							<u>1.20</u>	
							<u>1.04</u>	
26. DATE OF SURVEY		34. PERIOD ANNUAL PRECIPITATION		35. PERIOD WATER INFLOW, ACRE-FEET			36. WATER INFL. TO DATE, AC.-FT.	
26. DATE OF SURVEY		37. PERIOD CAPACITY LOSS, ACRE-FEET			38. TOTAL SED. DEPOSITS TO DATE, ACRE-FEET			
Dec. 11, 1967		<u>3.80</u>			<u>3.80</u>			
		<u>0.25</u>			<u>0.25</u>			
		<u>0.17</u>			<u>0.17</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.		
Dec. 11, 1967		<u>75#</u>		<u>277</u>		<u>0.91</u>		
				<u>277</u>		<u>13.72</u>		

\*No outlet pipe; reservoir dry at time of survey

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	-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

Drainage area above stockpond includes 867 acres of cropland (mostly wheat) and 93 acres of rangeland. Soils are Keith-Richfield silt loams (0 to 3 percent slopes with a few small closed depressions). A small dam about 1/2 mile upstream from the stockpond, which was built about the same time, contains 1.42 acre feet of sediment, making a total of 5.22 acre-feet for the drainage or at a rate of 0.23 acre feet per square mile per year.

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

50. DATE Dec. 21, 1967