

**RESERVOIR SEDIMENT  
DATA SUMMARY**

SCS-34 Rev. 5-62

Wayne Bartleff Pond  
NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

35-53

DATA SHEET NO.

<b>DAM</b>	1. OWNER <u>Wayne Bartleff</u>				2. STREAM <u>Platte</u>				3. STATE <u>Nebraska</u>						
	4. SEC. <u>17</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 <u>103.5*</u>				9. SPILLWAY CREST ELEV. <u>100.0*</u>						
<b>RESERVOIR</b>	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*		100.0		5.87		15.7		15.7		16. DATE NORMAL OPER. BEGAN				
	e. IRRIGATION										1940				
	f. CONSERVATION														
	g. SEDIMENT														
	h. INACTIVE														
17. LENGTH OF RESERVOIR					0.24 MILES		AV. WIDTH OF RESERVOIR					0.048 MILES			
<b>WATERSHED</b>	18. TOTAL DRAINAGE AREA				1.13 SQ. MI.		22. MEAN ANNUAL PRECIPITATION				INCHES				
	19. NET SEDIMENT CONTRIBUTING AREA				1.13 SQ. MI.		23. MEAN ANNUAL RUNOFF				INCHES				
	20. LENGTH		1.7 MILES		AV. WIDTH		0.70 MILES		24. MEAN ANNUAL RUNOFF				AC.-F.T.		
	21. MAX. ELEV.				MIN. ELEV.				25. CLIMATIC CLASSIFICATION						
	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. PERSQ. MI.
1940		0		0		Range		6		6.00		15.7		13.9	
10-8-64		24		24		Range		6		5.87		12.7		11.2	
<b>SURVEY DATA</b>	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		
10-8-64		3.0		0.13		0.11		3.0		0.13		0.11			
26. DATE OF SURVEY		39. AV. DRY WGT. LBS. PER CU. FT.		40. SED. DEP. TONS PERSQ. 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	
10-8-64		95		228		228		0.79		19.1					

\* Elevation assumed in emergency spillway at 100.0 feet.

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 Drainage from rangeland.															
48. AGENCY MAKING SURVEY				49. AGENCY SUPPLYING DATA				Soil Conservation Service				50. DATE		10-10-64	