

RESERVOIR SEDIMENTATION
DATA SUMMARY

Pollard Reservoir
NAME OF RESERVOIR

35-42
DATA SHEET NO.

DAM	1. OWNER <u>Merritt E. Pollard</u>			2. RIVER <u>Weeping Water Cr.</u>			3. STATE <u>Nebraska</u>					
	4. SEC. <u>26</u> TWP. <u>10N</u> RANGE <u>12E</u>			5. NEAREST TOWN <u>Nehawka</u>			6. COUNTY <u>Cass</u>					
	7. STREAM BED ELEV. <u>86.9</u>			8. TOP OF DAM ELEV. <u>102.6</u>			9. SPILLWAY CREST ELEV. <u>100.0±</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										1936	
	b. POWER											
	c. WATER SUPPLY										16. DATE NORMAL OPER. BEGAN	
	d. IRRIGATION											
	e. CONSERVATION		<u>100.0</u>		<u>1.38</u>		<u>7.63</u>		<u>7.63</u>		1936	
	f. INACTIVE											
17. LENGTH OF RESERVOIR <u>0.091</u> MILES					AV. WIDTH OF RESERVOIR <u>0.021</u> MILES							
WATERSHED	18. TOTAL DRAINAGE AREA (<u>61 Ac</u>)				0.100 SQ. MI.		22. MEAN ANNUAL PRECIPITATION		<u>28.71</u> INCHES			
	19. NET SEDIMENT CONTRIBUTING AREA				.098 SQ. MI.		23. MEAN ANNUAL RUNOFF INCHES					
	20. LENGTH		MILES		AV. WIDTH		MILES		24. MEAN ANNUAL RUNOFF AC.- FT.			
	21. MAX. ELEV.			MIN. ELEV. <u>86.9</u>			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. PER SQ. MI.	
1936		0	0	-	-	1.38		7.63		76.3		
1957		21	21	Range Detailed	6	1.38		4.38		43.8		
SURVEY DATA	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					
1957		3.25	.155	1.55	3.25	.155	1.55					
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			
1957		<u>65 1/</u>		2194	2194	2.03	42.6					

* Assumed elevation
1/ 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 1957