

RESERVOIR SEDIMENTATION
DATA SUMMARY

Bartel Stock Pond

NAME OF RESERVOIR

38-2

DATA SHEET NO.

DAM	1. OWNER Fred Bartel			2. RIVER Little Cheyenne Cr.			3. STATE South Dakota				
	4. SEC. 8 TWP. 119N RANGE 75W			5. NEAREST TOWN Gettysburg			6. COUNTY Potter				
	7. STREAM BED ELEV.			8. TOP OF DAM ELEV.			9. SPILLWAY CREST ELEV.				
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					1908					
	b. POWER										
	c. WATER SUPPLY							16. DATE NORMAL OPER. BEGAN			
	d. IRRIGATION										
	e. CONSERVATION			2.00	4.30	4.30	1908				
	f. INACTIVE										
WATERSHED	17. LENGTH OF RESERVOIR 0.13			MILES			AV. WIDTH OF RESERVOIR			MILES	
	18. TOTAL DRAINAGE AREA 0.609			SQ. MI.			22. MEAN ANNUAL PRECIPITATION 17.17			INCHES	
	19. NET SEDIMENT CONTRIBUTING AREA 0.606			SQ. MI.			23. MEAN ANNUAL RUNOFF			INCHES	
	20. LENGTH		MILES		AV. WIDTH		MILES		24. MEAN ANNUAL RUNOFF		AC.-FT.
	21. MAX. ELEV.		MIN. ELEV.		25. CLIMATIC CLASSIFICATION Semi-arid						
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.			
	1908	-	-	-	-	2.00	4.30	7.06			
	June 1937	29.0	29.0	Contour detailed	1 ft.	1.98	2.80	4.60			
	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				
	June 1937	1.50	0.05	0.08	1.50	0.05	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. ANNUAL	b. TOT. TO DATE	a. PERIOD	b. TOT. TO DATE			
June 1937	53.6 (3)	93.4	93.4	1.16	34.88						

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

Glymph, Louis M., Jr. Advance report on the sedimentation survey of Hurley Lake, Gettysburg, South Dakota. U. S. Soil Conserv. Serv. SCS-SS-26, 17 pp., illus., processed. Washington, D. C., September 1938.

Region 5, Soil Conservation Service
U. S. Department of Agriculture

48. AGENCY SUPPLYING DATA Lincoln, Nebraska 49. DATE January 4, 1951