

RESERVOIR SEDIMENTATION
DATA SUMMARY

Lampe Farm Pond
NAME OF RESERVOIR

31-13
DATA SHEET NO.

DAM	1. OWNER Ed Lampe		2. RIVER Trib. of Muddy Cr.		3. STATE Nebraska				
	4. SEC. 25 TWP. 4N RANGE 13E		5. NEAREST TOWN Howe		6. COUNTY Nemaha				
	7. STREAM BED ELEV. 0.0*		8. TOP OF DAM ELEV. 10		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					August 1942			
	b. POWER								
	c. WATER SUPPLY					16. DATE NORMAL OPER. BEGAN			
	d. IRRIGATION								
	e. CONSERVATION		.925	3.00	3.00		August 1942		
	f. INACTIVE								
17. LENGTH OF RESERVOIR			MILES	AV. WIDTH OF RESERVOIR		MILES			
WATERSHED	18. TOTAL DRAINAGE AREA (41 ac)		0.065	SQ. MI.	22. MEAN ANNUAL PRECIPITATION		INCHES		
	19. NET SEDIMENT CONTRIBUTING AREA		0.064	SQ. MI.	23. MEAN ANNUAL RUNOFF 3.7*		INCHES		
	20. LENGTH	MILES	AV. WIDTH	MILES	24. MEAN ANNUAL RUNOFF		AC.-FT.		
	21. MAX. ELEV.		MIN. ELEV.		25. CLIMATIC CLASSIFICATION				
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.	
	August 1942	-	-	-	-	.925	3.00	46.2	
	Dec. 1948	6.3	6.3	Range Detailed	6	.811	2.04	31.4	
	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		
	Dec. 1948		(inches)						
			5.2*						
	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		
	Dec. 1948	0.97 (1.07) 1/	0.154 (0.170)	2.41 (2.66)	0.97 (1.07)	0.154 (0.170)	2.41 (2.66)		
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		
Dec. 1948	57.4 (3)	3,010 (3,330)	3,010 (3,330)	5.13	32.3	2/ 7,860 (8,670)	2/ 7,860 (8,670)		

* Assumed or estimated

1/ Above-crest deposits within original flow-line.

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
 Gottschalk, L. C. and Brune, G. M. Sediment design criteria for the Missouri Basin Loess Hills. U. S. Soil Conserv. Serv., SCS-TP-97, 21 pp., illus., processed, Milwaukee, Wis., Oct. 1950.

$$\frac{2}{42} = \frac{37b \times 39 \times 1,000,000}{35a \times 18 \times \frac{640 \times 62.4}{12}}$$

48. AGENCY SUPPLYING DATA Region 5, Soil Conservation Service
 U. S. Department of Agriculture
 Lincoln, Nebraska

49. DATE January 8, 1951