

RESERVOIR SEDIMENTATION
DATA SUMMARY

Moller Farm Pond

35-26

NAME OF RESERVOIR
Unnamed trib. to

DATA SHEET NO.

DAM	1. OWNER Adolph Moller			2. RIVER Oak Creek			3. STATE Nebraska									
	4. SEC. SW 14 WP. 14 RANGE 12			5. NEAREST TOWN Farwell			6. COUNTY Howard									
	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										August 1949					
	b. POWER															
	c. WATER SUPPLY										16. DATE NORMAL OPER. BEGAN					
	d. IRRIGATION															
	e. CONSERVATION				2.55		15.40		15.40		August 1949					
	f. INACTIVE															
WATERSHED	17. LENGTH OF RESERVOIR 0.17 MILES				18. AV. WIDTH OF RESERVOIR 0.02 MILES											
	18. TOTAL DRAINAGE AREA 0.358 SQ. MI.				22. MEAN ANNUAL PRECIPITATION (57) 23.42 INCHES											
	19. NET SEDIMENT CONTRIBUTING AREA 0.354 SQ. MI.				23. MEAN ANNUAL RUNOFF 1.00 INCHES											
	20. LENGTH 1.5 MILES		AV. WIDTH 0.24 MILES		24. MEAN ANNUAL RUNOFF 19 AG.-FT.											
	21. MAX. ELEV.		MIN. ELEV.		25. CLIMATIC CLASSIFICATION Subhumid											
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.	
	Aug. 1949		-		-		-		-		2.55		15.40		43	
	Aug. 1953		4		4		Detailed Recon.		4 ranges		2.55		14.39		40	
	26. DATE OF SURVEY		34. PERIOD ANNUAL PRECIPITATION		35. PERIOD WATER INFLOW ACRE- FEET		36. WATER INFL. TO DATE AG.-FT.									
			a. MEAN ANNUAL		b. MAX. ANNUAL		c. PERIOD TOTAL		d. MEAN ANNUAL		e. TOTAL TO DATE.					
	Aug. 1953		22.01 1/2		-		-		-		-					
	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		d. TOTAL TO DATE		e. AV. ANNUAL		f. PER SQ. MI.-YEAR			
	Aug. 1953		1.01		0.25		0.71		1.01		0.25		0.71			
	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				
Aug. 1953		65*		1005		1005		1.62		6.56		-				

*Assumed

25. 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

1/ Period Annual Precipitation - Loup City Rainfall Record
2/ Mean annual runoff - Colby & Oltman
* Assumed dry wt. of one cubic-foot of silt

48. AGENCY SUPPLYING DATA SCS, Lincoln, Nebraska 49. DATE Sept. 13, 1954