

RESERVOIR SEDIMENTATION
DATA SUMMARY

Jenson-O'Neil Farm Pond
NAME OF RESERVOIR

35-13
DATA SHEET NO.

DAM	1. OWNER Jenson & O'Neil			2. RIVER Trib. of L. Nemaha R.		3. STATE Nebraska		
	4. SEC. 28 TWP. 8 N RANGE 12 E			5. NEAREST TOWN Syracuse		6. COUNTY Otoe		
	7. STREAM BED ELEV. 0.0*			8. TOP OF DAM ELEV. 15*		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					November 1936		
	b. POWER							
	c. WATER SUPPLY					16. DATE NORMAL OPER. BEGAN		
	d. IRRIGATION					November 1936		
	e. CONSERVATION		3.95	23.7	23.7			
	f. INACTIVE							
WATERSHED	17. LENGTH OF RESERVOIR			MILES		AV. WIDTH OF RESERVOIR		
	18. TOTAL DRAINAGE AREA (127.34 ac.)			0.199		SQ. MI.		
	19. NET SEDIMENT CONTRIBUTING AREA			0.193		SQ. MI.		
	20. LENGTH			MILES		AV. WIDTH		
	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.
	Nov. 1936	-	-	-	-	3.95	23.7	119
	Nov. 1948	12.0	12.0	Range Detailed	8	3.63	16.8	84
	26. DATE OF SURVEY	34. PERIOD ANNUAL PRECIPITATION	35. PERIOD WATER INFLOW			36. WATER INFL. TO DATE AC- FT.		
			a. MEAN ANNUAL	b. MAX. ANNUAL	c. PERIOD TOTAL	a. MEAN ANNUAL	b. TOTAL TO DATE	
	Nov. 1948		(inches)					
			3.9*					
	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	
	Nov. 1948	6.89 (8.24) 1/	0.574 (0.687)	2.97 (3.56)	6.89 (8.24)	0.574 (0.687)	2.97 (3.56)	
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	
Nov. 1948	56.9 (3)	3680 (4410)	3680 (4410)	2.43	29.1	2/ 12,650 (15,130)	2/ 12,650 (15,130)	

* 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, 34 pp., illus., processed. Milwaukee, Wis., Oct. 1950.

Erosion condition is moderate. Conservation practices are observed.

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

48. AGENCY SUPPLYING DATA Region 5, Soil Conservation Service 49. DATE January 8, 1951
 U. S. Dept. of Agriculture
 Lincoln, Nebraska