

RESERVOIR SEDIMENTATION
DATA SUMMARY

Lugn Reservoir
NAME OF RESERVOIR

35-34
DATA SHEET NO.

DAM	1. OWNER <u>A. V. Lugn</u>			2. RIVER <u>Innamed</u>		STATE <u>Nebraska</u>			
	4. SEC. <u>17</u> TWP. <u>7N</u> RANGE <u>9E</u>			5. NEAREST TOWN <u>Douglas</u>		6. COUNTY <u>Otoe</u>			
	7. STREAM BED ELEV. <u>91.7</u>			8. TOP OF DAM ELEV.		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					1946			
	b. POWER								
	c. WATER SUPPLY	<u>100.0</u>	<u>3.57</u>	<u>12.8</u>	<u>12.8</u>	16. DATE NORMAL OPER. BEGAN			
	d. IRRIGATION								
	e. CONSERVATION					1946			
	f. INACTIVE								
17. LENGTH OF RESERVOIR <u>0.151</u> MILES				AV. WIDTH OF RESERVOIR <u>0.043</u> MILES					
WATERSHED	18. TOTAL DRAINAGE AREA (<u>168 Ac</u>) <u>.263</u> SQ. MI.			22. MEAN ANNUAL PRECIPITATION <u>29.46</u> INCHES					
	19. NET SEDIMENT CONTRIBUTING AREA <u>.257</u> 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>91.7</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.
1946		<u>0</u>	<u>0</u>	-	-	<u>3.57</u>	<u>12.8</u>	<u>48.7</u>	
1957		<u>11</u>	<u>11</u>	Range Detailed	<u>9</u>	<u>3.57</u>	<u>4.33</u>	<u>16.5</u>	
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		<u>8.47</u>	<u>.77</u>	<u>2.93</u>	<u>8.47</u>	<u>.77</u>	<u>2.93</u>	
	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 1/2</u>	<u>4148</u>	<u>4148</u>	<u>6.0</u>	<u>66.2</u>		

* 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