

RESERVOIR SEDIMENTATION
DATA SUMMARY

Allington Reservoir
NAME OF RESERVOIR

32-4
DATA SHEET NO.

DAM	1. OWNER <u>Frank Allington</u>			2. RIVER <u>Sicily Creek</u>		3. STATE <u>Nebraska</u>				
	4. SEC. <u>11</u> TWP. <u>2N</u> RANGE <u>6E</u>		5. NEAREST TOWN <u>Beatrice</u>		6. COUNTY <u>Gage</u>					
	7. STREAM BED ELEV.			8. TOP OF DAM ELEV.		9. SPILLWAY CREST ELEV. <u>100*</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					1936				
	b. POWER									
	c. WATER SUPPLY					16. DATE NORMAL OPER. BEGAN				
	d. IRRIGATION									
	e. CONSERVATION	<u>100</u>		<u>6.08</u>	<u>33.104</u>	<u>33.104</u>	1936			
	f. INACTIVE									
17. LENGTH OF RESERVOIR <u>0.303</u> MILES				AV. WIDTH OF RESERVOIR <u>.042</u> MILES						
WATERSHED	18. TOTAL DRAINAGE AREA (<u>334</u> Ac) <u>0.52</u> SQ. MI.			22. MEAN ANNUAL PRECIPITATION <u>27.80</u> INCHES						
	19. NET SEDIMENT CONTRIBUTING AREA <u>.512</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. _____		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.	
1936		0	0	-	-	6.08	33.104	63.7		
1956		20	20	range detailed	11	6.08	14.704	28.3		
SURVEY DATA	26. DATE OF SURVEY		34. PERIOD ANNUAL PRECIPITATION		35. PERIOD WATER INFLOW ACRE- FEET			36. WATER INFL. TO DATE AQ-FT.		
					a. MEAN ANNUAL	b. MAX. ANNUAL	c. PERIOD TOTAL	d. MEAN ANNUAL	e. 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	d. TOTAL TO DATE	e. AV. ANNUAL	f. PER SQ. MI.-YEAR		
	May '56		18.4	.920	1.77	18.4	.920	1.77		
			0.17 <u>1/</u>	0.009	0.017	0.17	0.009	0.017		
	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		
May 1956		65 <u>2/</u>	2506 <u>24 1/2</u>	2506 <u>24</u>	2.8	55.6				

* Assumed elevation
1/ Sediment above crest
2/ 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 May, 1956