

U.S. DEPARTMENT OF AGRICULTURE
RESERVOIR SEDIMENTATION
DATA SUMMARY

Flannagin Reservoir
NAME OF RESERVOIR

SOIL CONSERVATION SERVICE
33-4a
DATA SHEET NO.

DAM	1. OWNER <u>Glenn Flannagin</u>			2. RIVER <u>Trib of Republican R.</u>		3. STATE <u>Nebraska</u>		
	4. SEC. <u>11</u> TWP. <u>4N</u> RANGE <u>27W</u>		5. NEAREST TOWN <u>Bartley</u>			6. COUNTY <u>Red Willow</u>		
	7. STREAM BED ELEV. <u>86.0</u>			8. TOP OF DAM ELEV. <u>103.0</u>		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					1940		
	b. POWER							
	c. WATER SUPPLY					16. DATE NORMAL OPER. BEGAN		
	d. IRRIGATION							
	e. CONSERVATION	<u>100.0</u>	<u>2.11</u>	<u>9.71</u>	<u>9.71</u>	1940		
	f. INACTIVE							
WATERSHED	17. LENGTH OF RESERVOIR <u>0.170</u> MILES			AV. WIDTH OF RESERVOIR <u>0.024</u> MILES				
	18. TOTAL DRAINAGE AREA (<u>320 Ac</u>)		<u>0.500</u> SQ. MI.	22. MEAN ANNUAL PRECIPITATION		<u>19.50</u> INCHES		
	19. NET SEDIMENT CONTRIBUTING AREA		<u>.497</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>86.0</u>	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.
	1940	0	0	-	0	2.11	9.71	19.4
	1956	16	16	Range Detailed	5	1.98	4.89	9.78
	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	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	
	1956	4.82	.301	.602	4.82	.301	.602	
		0.57 <u>1/</u>	0.036	.072	0.57	0.036	0.072	
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	c. AV. ANNUAL	d. TOT. TO DATE	e. PERIOD	f. TOT. TO DATE		
1956	70 70	918 110 <u>1/</u>	918 110	3.1	49.6			

* Assumed Elevation
1/ Sediment above crest

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
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 <u>1956</u>							