

RESERVOIR SEDIMENTATION
DATA SUMMARY

Moran Reservoir
NAME OF RESERVOIR

31-10
DATA SHEET NO.

DAM	1. OWNER <u>M, K & T R.R. Company</u>			2. RIVER <u>So. Fork Osage River</u>		3. STATE <u>Kansas</u>			
	4. SEC. <u>14</u> TWP. <u>24S</u> RANGE <u>20E</u>			5. NEAREST TOWN <u>Moran</u>		6. COUNTY <u>Allen</u>			
	7. STREAM BED ELEV. <u>1010</u>			8. TOP OF DAM ELEV. <u>1038</u>		9. SPILLWAY CREST ELEV. <u>1032</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					April 1, 1913			
	b. POWER								
	c. WATER SUPPLY	<u>1032</u>	<u>43.78</u>	<u>365</u>	<u>365</u>	16. DATE NORMAL OPER. BEGAN			
	d. IRRIGATION					April 1, 1913			
	e. CONSERVATION								
	f. INACTIVE								
17. LENGTH OF RESERVOIR <u>1.0</u> MILES			AV. WIDTH OF RESERVOIR _____ MILES						
WATERSHED	18. TOTAL DRAINAGE AREA <u>5.35 1/</u> SQ. MI.			22. MEAN ANNUAL PRECIPITATION <u>38.53 (45)</u> INCHES					
	19. NET SEDIMENT CONTRIBUTING AREA <u>5.28</u> SQ. MI.			23. MEAN ANNUAL RUNOFF <u>10*</u> INCHES					
	20. LENGTH _____ MILES		AV. WIDTH _____ MILES		24. MEAN ANNUAL RUNOFF <u>2816*</u> AC.-FT.				
	21. MAX. ELEV. _____		MIN. ELEV. _____		25. CLIMATIC CLASSIFICATION <u>Humid</u>				
	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.
<u>April 1, 1913</u>		<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>44</u>	<u>365</u>	<u>68.2</u>	
<u>Sept. 6, 1939</u>		<u>26.4</u>	<u>26.4</u>	<u>Range Detailed</u>	<u>20</u>	<u>44</u>	<u>298</u>	<u>55.7</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		
<u>Sept. 6, 1939</u>		<u>66.6</u>	<u>2.52</u>	<u>0.477</u>	<u>66.6</u>	<u>2.52</u>	<u>0.477</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			
<u>Sept. 6, 1939</u>		<u>49.15 (6)</u>	<u>511</u>	<u>511</u>	<u>0.69</u>	<u>18.25</u>			

* Estimated

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 <u>1/</u> From stereoscopic study of aerial photos.														
48. AGENCY SUPPLYING DATA										49. DATE <u>May 25, 1951</u>				
Region 5, Soil Conservation Service U. S. Dept. of Agriculture Lincoln, Nebraska														