

RESERVOIR SEDIMENTATION
DATA SUMMARY

Mason Siding Dam
NAME OF RESERVOIR

30-9
DATA SHEET NO.

DAM	1. OWNER <u>Great Northern Railroad</u>			2. RIVER <u>Rush</u>			3. STATE <u>North Dakota</u>			
	4. SEC. <u>36</u> TWP. <u>142 N</u> RANGE <u>53 W</u>			5. NEAREST TOWN <u>Erie</u>			6. COUNTY <u>Cass</u>			
	7. STREAM BED ELEV. <u>74.8*</u>			8. TOP OF DAM ELEV. <u>93.0*</u>			9. SPILLWAY CREST ELEV. <u>90.1*</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					1912				
	b. POWER									
	c. WATER SUPPLY	<u>90.1</u>	<u>5.77</u>	<u>43.15</u>	<u>43.15</u>	16. DATE NORMAL OPER. BEGAN				
	d. IRRIGATION					1912				
	e. CONSERVATION									
f. INACTIVE										
17. LENGTH OF RESERVOIR <u>0.43</u> MILES			AV. WIDTH OF RESERVOIR <u>0.0214</u> MILES							
WATERSHED	18. TOTAL DRAINAGE AREA <u>30.2</u> SQ. MI.			22. MEAN ANNUAL PRECIPITATION <u>18.881/</u> INCHES						
	19. NET SEDIMENT CONTRIBUTING AREA <u>30.2</u> SQ. MI.			23. MEAN ANNUAL RUNOFF <u>0.602/</u> INCHES						
	20. LENGTH <u>11.0</u> MILES		AV. WIDTH <u>2.8</u> MILES		24. MEAN ANNUAL RUNOFF <u>965.8</u> AC.-FT.					
	21. MAX. ELEV.		MIN. ELEV.		25. CLIMATIC CLASSIFICATION <u>Semi-arid</u>					
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.		
	<u>1912</u>	<u>--</u>	<u>--</u>	<u>--</u>	<u>--</u>	<u>5.77</u>	<u>43.15</u>	<u>1.428</u>		
	<u>June 1956</u>	<u>44</u>	<u>44</u>	<u>Range (D)</u>	<u>10</u>	<u>5.77</u>	<u>35.40</u>	<u>1.172</u>		
	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>June 1956</u>	<u>7.75</u>	<u>0.176</u>	<u>0.0058</u>	<u>7.748</u>	<u>0.176</u>	<u>0.0058</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>June 1956</u>	<u>35.0*</u>	<u>4.44</u>	<u>4.44</u>	<u>0.40</u>	<u>17.95</u>					

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															
1/Amenia, N. Dak., rainfall record.															
2/Mean annual runoff - U.S.G.S. Circulars 37 and 52.															
*Assumed															
Great Northern Railroad Watering Station began operation 1912; retired 1927.															
48. AGENCY SUPPLYING DATA SCS, Fargo, North Dakota										49. DATE June 29, 1956					