

RESERVOIR SEDIMENTATION
DATA SUMMARY

Norby Dam

30-12

NAME OF RESERVOIR

DATA SHEET NO.

Unnamed Trib. of

DAM	1. OWNER			2. RIVER <u>Wild Rice River</u>			3. STATE <u>North Dakota</u>			
	4. SEC. 20 TWP. 129 N RANGE 54 W			5. NEAREST TOWN <u>Havana</u>			6. COUNTY <u>Sargent</u>			
	7. STREAM BED ELEV. <u>86.3*</u>			8. TOP OF DAM ELEV. <u>95.8*</u>			9. SPILLWAY CREST ELEV. <u>94.2*</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					1934				
	b. POWER									
	c. WATER SUPPLY	<u>94.2*</u>	<u>1.516</u>	<u>5,227</u>	<u>5,227</u>	16. DATE NORMAL OPER. BEGAN				
	d. IRRIGATION					1934				
	e. CONSERVATION									
	f. INACTIVE									
WATERSHED	17. LENGTH OF RESERVOIR <u>0.082</u> MILES			AV. WIDTH OF RESERVOIR <u>0.0246</u> MILES						
	18. TOTAL DRAINAGE AREA <u>0.183</u> SQ. MI.			22. MEAN ANNUAL PRECIPITATION <u>20.261/</u> INCHES						
	19. NET SEDIMENT CONTRIBUTING AREA <u>0.183</u> SQ. MI.			23. MEAN ANNUAL RUNOFF <u>0.452/</u> INCHES						
	20. LENGTH <u> </u> MILES		AV. WIDTH <u> </u> MILES		24. MEAN ANNUAL RUNOFF <u>4.39</u> AG.-FT.					
	21. MAX. ELEV. <u> </u>		MIN. ELEV. <u> </u>		25. CLIMATIC CLASSIFICATION <u>Sub-humid</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>1934</u>	<u>--</u>	<u>--</u>	<u>--</u>	<u>--</u>	<u>1.516</u>	<u>5,227</u>	<u>28.56</u>		
	<u>August 1956</u>	<u>22</u>	<u>22</u>	<u>Range (D)</u>	<u>4</u>	<u>1.516</u>	<u>4,467</u>	<u>24.41</u>		
	26. DATE OF SURVEY	34. PERIOD ANNUAL PRECIPITATION	35. PERIOD WATER INFLOW ACRE- FEET				36. WATER INFL. TO DATE AG.-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>August 1956</u>	<u>0.76</u>	<u>0.0345</u>	<u>0.188</u>	<u>0.76</u>	<u>0.0345</u>	<u>0.188</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>August 1956</u>	<u>45*</u>	<u>184.3</u>	<u>184.3</u>	<u>0.661</u>	<u>14.53</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/Forman, N. Dak., rainfall record.
 2/Mean annual runoff - U.S.G.S. Circulars 37 and 52.
 *Assumed

48. AGENCY SUPPLYING DATA SCS, Fargo, North Dakota
 49. DATE December 11, 1956