

RESERVOIR SEDIMENTATION
DATA SUMMARY

White Lake
NAME OF RESERVOIR

30-15
DATA SHEET NO.

DAM	1. OWNER S. Dak. Dept. of Game & Fish		2. RIVER Trib. of Wild Rice		3. STATE South Dakota			
	4. SEC. 36 TWP. 128N RANGE 57W		5. NEAREST TOWN Havana, N.D.		6. COUNTY Marshall, S. Dak.			
	7. STREAM BED ELEV. 1327.0		8. TOP OF DAM ELEV. 1364.0		9. SPILLWAY CREST ELEV. 1358.0			
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					1938		
	b. POWER							
	c. WATER SUPPLY					16. DATE NORMAL OPER. BEGAN		
	d. IRRIGATION							
	e. CONSERVATION	1358.0	204.0	1,895.6	1,895.6	1938		
	f. INACTIVE							
WATERSHED	17. LENGTH OF RESERVOIR 1.88 MILES		AV. WIDTH OF RESERVOIR 0.19 MILES					
	18. TOTAL DRAINAGE AREA 37.0 SQ. MI.		22. MEAN ANNUAL PRECIPITATION 20.26 INCHES					
	19. NET SEDIMENT CONTRIBUTING AREA 21.08 SQ. MI.		23. MEAN ANNUAL RUNOFF 0.45 INCHES					
	20. LENGTH 6.0 MILES		AV. WIDTH 3.5 MILES		24. MEAN ANNUAL RUNOFF 887.0 AC.-FT.			
	21. MAX. ELEV. 1,900.0		MIN. ELEV. 1327.0		25. CLIMATIC CLASSIFICATION Sub-humid			
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.
	1938	--	--	--	--	204.0	1,895.6	51.23
	1957	19	19	Range (D)	14	204.0	1,808.8	48.89
	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	
	May 1957	86.8	4.57	0.2167	86.8	4.57	0.2167	
	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 1957	32 (4)	151	151	0.24	4.58			

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, North Dakota, rainfall record.
2/Mean annual runoff - U.S.G.S. Circulars 35 and 52.

48. AGENCY SUPPLYING DATA SCS, Fargo, North Dakota
 49. DATE Oct. 17, 1957