

**RESERVOIR SEDIMENTATION  
DATA SUMMARY**

Gwinner Dam

30 - 6

NAME OF RESERVOIR  
Unnamed Trib. of

DATA SHEET NO.

DAM	1. OWNER		2. RIVER Wild Rice River		3. STATE North Dakota			
	4. SEC. 11 TWP. 132 N RANGE 56 W		5. NEAREST TOWN Gwinner		6. COUNTY Sargent			
	7. STREAM BED ELEV. 81.2*		8. TOP OF DAM ELEV. 95.5*		9. SPILLWAY CREST ELEV. 90.6*			
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					1936		
	b. POWER							
	c. WATER SUPPLY	90.6*	2.73	12.92	12.92	16. DATE NORMAL OPER. BEGAN		
	d. IRRIGATION							
	e. CONSERVATION							
	f. INACTIVE					1936		
17. LENGTH OF RESERVOIR 0.11 MILES			14. AV. WIDTH OF RESERVOIR 0.038 MILES					
WATERSHED	18. TOTAL DRAINAGE AREA 0.226 SQ. MI.		22. MEAN ANNUAL PRECIPITATION 20.261/ INCHES					
	19. NET SEDIMENT CONTRIBUTING AREA 0.222 SQ. MI.		23. MEAN ANNUAL RUNOFF 0.432/ INCHES					
	20. LENGTH 0.644 MILES	AV. WIDTH 0.379 MILES		24. MEAN ANNUAL RUNOFF 5.18 AG.-FT.				
	21. MAX. ELEV. MIN. ELEV.		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 <sub>w</sub> RATIO AC.-FT. PER SQ. MI.
	1936	--	--	--	--	2.73	12.92	57.16
	August 1956	20	20	Range (D)	5	2.73	10.29	45.53
	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	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	
	August 1956	2.63	0.131	0.59	2.63	0.131	0.59	
	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		
August 1956	29.0 (1)	372.6	372.6	1.014	20.36			

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 records.  
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