

RESERVOIR SEDIMENTATION
DATA SUMMARY

Split Rock

36-1

NAME OF RESERVOIR

DATA SHEET NO.

Dept.

DAM	1. OWNER Minnesota Conservation/			2. RIVER Trib. of Big Sioux R.		3. STATE Minnesota		
	4. SEC. 15 TWP. 105N RANGE 46W			5. NEAREST TOWN Ihlen		6. COUNTY Pipestone		
	7. STREAM BED ELEV.			8. TOP OF DAM ELEV.		9. SPILLWAY CREST ELEV.		
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					July 1938		
	b. POWER							
	c. WATER SUPPLY					16. DATE NORMAL OPER. BEGAN		
	d. IRRIGATION					July 1938		
	e. CONSERVATION		120.6	899.0	899.0			
	f. INACTIVE							
WATERSHED	17. LENGTH OF RESERVOIR			MILES		AV. WIDTH OF RESERVOIR		
	18. TOTAL DRAINAGE AREA			SQ. MI.		22. MEAN ANNUAL PRECIPITATION		
	19. NET SEDIMENT CONTRIBUTING AREA			SQ. MI.		23. MEAN ANNUAL RUNOFF		
	20. LENGTH			MILES		24. MEAN ANNUAL RUNOFF		
	21. MAX. ELEV.			MIN. ELEV.		25. CLIMATIC CLASSIFICATION		
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.
	July 1938	-	-	-	-	120.6	899.0	21.8
	June 1949	10.9	10.9	Range Detailed	18	114.8	692.1	16.8
	26. DATE OF SURVEY	34. PERIOD ANNUAL PRECIPITATION	35. PERIOD WATER INFLOW			36. WATER INFL. TO DATE		
			a. MEAN ANNUAL	b. MAX. ANNUAL	c. PERIOD TOTAL	d. MEAN ANNUAL	e. TOTAL TO DATE	
	June 1949	23	(inches)			(inches)		
			2.0*			2.0*		
	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	
	June 1949	206.9 (211.4) 1/	19.0 (19.4)	0.462 (0.472)	206.9 (211.4)	19.0 (19.4)	0.462 (0.472)	
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	
June 1949	42.8 (6)	431 (440)	431 (440)	2.11	23.0	2,960 ² / _{(3,020)²}	2,960 ² / _{(3,020)²}	

* Estimated

1/ Above-crest deposits within original flow line

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. U.S.D.A. Yearbook of Agriculture, Washington, D.C., 1941.
 2. Gottschalk, L.C., and Brune, G.M. Sediment design criteria for the Missouri Basin Loess Hills. Soil Conserv. Serv. SCS-TP-97, Milwaukee, Wisconsin, 1950.
 Checked and approved by R. E. Johnson, Research Supervisor, Fisheries Research Unit, Div. of Game and Fish, Minnesota Dept. of Conservation, St. Paul 1, Minn.
 "Survey by Pittman-Robertson game research unit substantiates this survey."

$$\frac{2}{42} = \frac{37b \times 39 \times 1,000,000}{35a \times 18 \times \frac{640 \times 62.4}{12}}$$

48. AGENCY SUPPLYING DATA Region 3, Soil Conservation Service 49. DATE January 11, 1950
 U. S. Dept. of Agriculture, Milwaukee, Wis.