

RESERVOIR SEDIMENTATION
DATA SUMMARY

Bartlett

NAME OF RESERVOIR

36-13

DATA SHEET NO.

DAM	1. OWNER Farmer			2. RIVER Green Creek			3. STATE South Dakota								
	4. SEC. 15 TWP. 95 RANGE 49			5. NEAREST TOWN Alcester			6. COUNTY Union								
	7. STREAM BED ELEV. 1187.0			8. TOP OF DAM ELEV. 100.0*			9. SPILLWAY CREST ELEV. 95.94								
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														
	b. POWER										Nov., 1936				
	c. WATER SUPPLY		95.94		1.742		12.84		12.84		16. DATE NORMAL OPER. BEGAN				
	d. IRRIGATION														
	e. CONSERVATION														
	f. INACTIVE										Nov., 1936				
17. LENGTH OF RESERVOIR 0.12 MILES					AV. WIDTH OF RESERVOIR .042 MILES										
WATERSHED	18. TOTAL DRAINAGE AREA .234 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 24.84 INCHES										
	19. NET SEDIMENT CONTRIBUTING AREA .234 SQ. MI.				23. MEAN ANNUAL RUNOFF 1.0 INCHES										
	20. LENGTH .63 MILES		AV. WIDTH .38 MILES		24. MEAN ANNUAL RUNOFF 12.4 AC.-FT.										
	21. MAX. ELEV. 1263		MIN. ELEV. 1187		25. CLIMATIC CLASSIFICATION sub-humid										
	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.
11-1936		0		0		--		--		1.742		12.84		55.0	
11-22-55		19		Range		Range		4		1.742		6.86		29.0	
SURVEY DATA	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	d. MEAN ANNUAL	e. TOTAL TO DATE						
	11-22-1955		17-36		12.4	17.86	235.6	12.4	235.6**						
	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							
11-22-55		5.99	.315	1.35	5.99**	.315**	1.35**								
SURVEY DATA	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							
	11-22-1955		77.0	2264	2264**	.024	.466	31,373	31,373**						

* Assumed elevation

** As of November, 1955

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

Sediments are derived from loessial materials and having about 90 percent silts and clays.

48. AGENCY SUPPLYING DATA USDA - SCS, WWPP

49. DATE Jan. 30, 1962