

RESERVOIR SEDIMENTATION
DATA SUMMARY

Red Spires

43-6

NAME OF RESERVOIR

DATA SHEET NO.

DAM	1. OWNER USDI - BIM			2. RIVER Rock Waterhole Creek		3. STATE Wyoming		
	4. SEC. 7 TWP. 49 RANGE 96			5. NEAREST TOWN Worland		6. COUNTY Washakie		
	7. STREAM BED ELEV. 81.5*			8. TOP OF DAM ELEV. 103.3*		9. SPILLWAY CREST ELEV. 100.00*		
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							
	c. WATER SUPPLY					16. DATE NORMAL OPER. BEGAN		
	d. IRRIGATION							
	e. CONSERVATION	100.00%	27.2	193	193			
	f. INACTIVE							
17. LENGTH OF RESERVOIR 0.45 MILES				AV. WIDTH OF RESERVOIR 0.09 MILES				
WATERSHED	18. TOTAL DRAINAGE AREA 5.24 SQ. MI.			22. MEAN ANNUAL PRECIPITATION 8.2 (Worland) INCHES				
	19. NET SEDIMENT CONTRIBUTING AREA 5.20 SQ. MI.			23. MEAN ANNUAL RUNOFF .63 INCHES				
	20. LENGTH 5.4 MILES		AV. WIDTH .96 MILES		24. MEAN ANNUAL RUNOFF 176.1 AG.-FT.			
	21. MAX. ELEV. 6000		MIN. ELEV. 4700		25. CLIMATIC CLASSIFICATION arid			
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.
	Oct. 1, 1954			Contour	2.0 ft	27.2	193.4	36.9
	Oct. 25, 1955	1	1	detailed	2.0	27.2	191.3	36.5
	Oct. 9, 1958	3	4		2.0	27.2	176.1	33.6
	Oct. 13, 1961	3	7		2.0	27.2	154.5	29.5
	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	
	Oct. 25, 1955	-	65.9	65.9	65.9	65.9	65.9	
	Oct. 9, 1958	-	190.3	389	572	159.5	638	
	Oct. 13, 1961	-	198.3	339	595	176.1	1233	
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		
Oct. 25, 1955	2.1	2.1	.40	2.1	2.1	.40		
Oct. 9, 1958	15.2	5.1	.98	17.3	4.3	.83		
Oct. 13, 1961	21.6	7.2	1.38	38.9	5.6	1.08		
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	c. AV. ANNUAL	d. TOT. TO DATE	e. PERIOD	f. TOT. TO DATE	
Oct. 25, 1955				1.1	1.1			
Oct. 9, 1958				2.2	8.9			
Oct. 13, 1961				2.9	20.1			

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

Data for 1954 given in U. S. Geological Survey Water Supply Paper 1475-A.

48. AGENCY SUPPLYING DATA U. S. Geological Survey
Water Resources Division

49. DATE April 25, 1962