

RESERVOIR SEDIMENT
DATA SUMMARY

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

SCS 34 Rev. 6-66

Cheyenne Retention Reservoir

NAME OF RESERVOIR

63-22

DATA SHEET NO.

DAM	1. OWNER BLM		2. STREAM Indian Wash		3. STATE Colorado			
	4. SEC. 17 TWP. T 1N RANGE R 1E		5. NEAREST P. O. Grand Junction		6. COUNTY Mesa			
	7. LAT 39° 09' 33" LONG 108° 29' 56"		8. TOP OF DAM ELEVATION 104.6		9. SPILLWAY CREST ELEV. 100.0*			
RESERVOIR	10. STORAGE ALLOCATION	11. ELEVATION TOP OF POOL	12. ORIGINAL SURFACE AREA, ACRES	13. ORIGINAL CAPACITY, ACRE-FEET	14. GROSS STORAGE, ACRE-FEET	15. DATE STORAGE BEGAN		
	a. FLOOD CONTROL					1965		
	b. MULTIPLE USE							
	c. POWER							
	d. WATER SUPPLY					16. DATE NORMAL OPER. BEGAN		
	e. IRRIGATION							
	f. CONSERVATION					1965		
	g. INACTIVE	100.0	2.97	15.5	15.5			
17. LENGTH OF RESERVOIR	0.157		MILES	AV. WIDTH OF RESERVOIR	0.03 MILES			
WATERSHED	18. TOTAL DRAINAGE AREA	0.22		SQ. MI.	22. MEAN ANNUAL PRECIPITATION 8.41 (84 yr) INCHES			
	19. NET SEDIMENT CONTRIBUTING AREA	0.22		SQ. MI.	23. MEAN ANNUAL RUNOFF 0.6 INCHES			
	20. LENGTH	1.3	MILES	AV. WIDTH	0.2	MILES	24. MEAN ANNUAL RUNOFF 7.0 AC.-FT.	
	21. MAX. ELEV.	5440		MIN. ELEV.	5120		25. ANNUAL TEMP: MEAN 52.7° RANGE	
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/I. RATIO, AC.-FT. PER AC.-FT.
	October 1975	10	10	Range	10	2.97 2.97	15.5 14.3	2.2 2.0
	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 CAPACITY LOSS, 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	
	October 1975	1.20	0.12	0.55	1.20	0.12	0.56	
	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. ANN.	b. TOT. TO DATE	a. PERIOD	b. TOT. TO DATE
	October 1975				0.77	7.7		

*Assumed Elevation

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET BELOW, AND ABOVE, 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															
<p>The largest flood flow into the reservoir occurred on July 18, 1974, with water ponding to an estimated elevation of 95.1 feet. The flood water volume caught by the reservoir was 4.31 acre-feet.</p> <p>One small dam above this reservoir caught approximately 100% of the sediment (sediment level below crest of spillway) from a total drainage area of 0.11 sq. mi. (68 acres).</p> <p>More than 21 very small gully plugs are estimated to have caught approximately 50% of the sediment from 0.06 sq. mi. (39 acres) of the drainage area of Cheyenne Reservoir.</p>															
48. AGENCY MAKING SURVEY				Soil Conservation Service				50. DATE				1975			
49. AGENCY SUPPLYING DATA				Soil Conservation Service											