

RESERVOIR SEDIMENT
DATA SUMMARY

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

SCS-34 Rev. 6-66

Cherokee Retention Reservoir
NAME OF RESERVOIR

63-23

DATA SHEET NO.

DAM	1. OWNER <u>BIM</u>			2. STREAM <u>Indian Wash</u>			3. STATE <u>Colorado</u>					
	4. SEC. <u>20</u> TWP. <u>1N</u> RANGE <u>1E</u>			5. NEAREST P. O. <u>Grand Junction</u>			6. COUNTY <u>Mesa</u>					
	7. LAT. <u>39° 08' 30"</u> LONG <u>108° 30' 25"</u>			8. TOP OF DAM ELEVATION <u>104.6</u>			9. SPILLWAY CREST ELEV. <u>100.0*</u>					
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										16. DATE NORMAL OPER. BEGAN	
	c. POWER											
	d. WATER SUPPLY											
	e. IRRIGATION											
	f. CONSERVATION											
	g. INACTIVE		<u>100.0</u>		<u>3.27</u>		<u>20.0</u>		<u>20.0</u>		<u>1965</u>	
WATERSHED	17. LENGTH OF RESERVOIR <u>0.19</u> MILES				AV. WIDTH OF RESERVOIR <u>0.03</u> MILES							
	18. TOTAL DRAINAGE AREA <u>0.31</u> SQ. MI.				22. MEAN ANNUAL PRECIPITATION <u>8.41 (84 yr)</u> INCHES							
	19. NET SEDIMENT CONTRIBUTING AREA <u>0.31</u> SQ. MI.				23. MEAN ANNUAL RUNOFF <u>0.5</u> INCHES							
	20. LENGTH <u>1.6</u> MILES		AV. WIDTH <u>0.2</u> MILES		24. MEAN ANNUAL RUNOFF <u>8.3</u> AC. F. T.							
	21. MAX. ELEV. <u>5220</u>		MIN. ELEV. <u>4990</u>		25. ANNUAL TEMP: MEAN <u>52.7°</u> 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.			
	<u>1965</u>		<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>3.27</u>	<u>20.0</u>	<u>2.4</u>			
	<u>October 1975</u>		<u>10</u>	<u>10</u>	<u>Range</u>	<u>13</u>	<u>3.27</u>	<u>19.1</u>	<u>2.3</u>			
	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				
	<u>October 1975</u>		<u>0.90</u>	<u>0.09</u>	<u>0.29</u>	<u>0.90</u>	<u>0.09</u>	<u>0.29</u>				
	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				
<u>October 1975</u>					<u>0.45</u>	<u>4.5</u>						

*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

The largest flood flow into the reservoir occurred on July 18, 1974, with water ponding to an estimated elevation of 87.8 feet. The flood water volume caught by the reservoir was 12.35 acre feet.

Three very small dams above this reservoir caught 100% of the sediment from a total drainage area of .07 sq. mi. (45 acres).

More than 54 very small gully plugs are estimated to have caught approximately 50% of the sediment from .13 sq. mi. (83 acres) of the drainage area of the Cherokee Reservoir.

48. AGENCY MAKING SURVEY Soil Conservation Service
 49. AGENCY SUPPLYING DATA Soil Conservation Service
 50. DATE 1975 _____