

RESERVOIR SEDIMENT
DATA SUMMARY

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

SCS-34 Rev. 6-66

CREEK RETENTION RESERVOIR
NAME OF RESERVOIR

63-26

DATA SHEET NO.

DAM	1. OWNER BLM			2. STREAM Indian Wash			3. STATE Colorado							
	4. SEC. 16 TWP. T 1N RANGE R 1E			5. NEAREST P.O. Grand Junction			6. COUNTY Mesa							
	7. LAT. 39° 09' 19" LONG. 108° 29' 41"			8. TOP OF DAM ELEVATION 104.38			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		2.90		14.1		14.1					
WATERSHED	17. LENGTH OF RESERVOIR				0.114 MILES		AV. WIDTH OF RESERVOIR				0.040 MILES			
	18. TOTAL DRAINAGE AREA				0.40 SQ. MI.		22. MEAN ANNUAL PRECIPITATION				8.41 (84 yr.) INCHES			
	19. NET SEDIMENT CONTRIBUTING AREA				0.40 SQ. MI.		23. MEAN ANNUAL RUNOFF				0.6 INCHES			
	20. LENGTH		2.1 MILES		AV. WIDTH		0.2 MILES		24. MEAN ANNUAL RUNOFF				12.8 AC. FT.	
	21. MAX. ELEV.		6320		MIN. ELEV.		5090		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.			
	1965		-	-	-	-		2.90	14.1		1.1			
	July 1975		10	10	Range	11		2.90	11.7		0.9			
	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					
	July 1975		2.42	0.24	0.61		2.42	0.24	0.61					
							Adding sediment behind 2 small gully plugs	on the main channel						
		2.84	0.28	0.70										
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							
July 1975		90	1,189.6	1,189.6	1.7	17.0								

*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 98.4 feet. The flood water volume caught by the reservoir was 7.45 acre-feet.</p> <p>Two small gully plugs on the main channel above the reservoir caught an estimated 0.42 acre-feet of sediment.</p> <p>Two small dams above the reservoir caught approximately 100% of the sediment (sediment levels at or below crest of spillways) from a total drainage area of 0.17 sq. mi. (111 acres).</p> <p>More than 38 very small gully plugs are estimated to have caught approximately 50% of the sediment from 0.09 sq. mi. (60 acres) of the drainage area of Creek Reservoir.</p>															
48. AGENCY MAKING SURVEY				Soil Conservation Service											
49. AGENCY SUPPLYING DATA				Soil Conservation Service											
						50. DATE		1975							