

RESERVOIR SEDIMENT

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

DATA SUMMARY

Chippewa Retention Reservoir

SCS-34 Rev. 6-66

NAME OF RESERVOIR

63-24

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' 47" LONG. 108° 29' 56"		8. TOP OF DAM ELEVATION 103.8		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		1.81	6.8	6.8			
WATERSHED	17. LENGTH OF RESERVOIR 0.197 MILES		AV. WIDTH OF RESERVOIR 0.014 MILES					
	18. TOTAL DRAINAGE AREA 0.24 SQ. MI.		22. MEAN ANNUAL PRECIPITATION 8.41 (84 yr) INCHES					
	19. NET SEDIMENT CONTRIBUTING AREA 0.24 SQ. MI.		23. MEAN ANNUAL RUNOFF 0.6 INCHES					
	20. LENGTH 1.6 MILES		AV. WIDTH 0.15 MILES		24. MEAN ANNUAL RUNOFF 7.7 AC.-FT.			
	21. MAX. ELEV. 5640		MIN. ELEV. 5155		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	-	-	-	-	1.81	6.8	0.9
	October 1975	10	10	Range	10	1.81	5.45	0.7
	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	1.35	0.13	0.57	1.35	0.13	0.57	
	25. 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				2.0	20.0			

*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 100.0 feet and flowing over the emergency spillway. The flood water volume caught by the reservoir was 5.40 acre-feet.</p> <p>Two small dams above this reservoir caught approximately 100% of the sediment (sediment levels below crest of spillway) from a total drainage area of 0.08 sq. mi. (54 acres).</p> <p>More than 18 very small gully plugs are estimated to have caught approximately 50% of the sediment from 0.05 sq. mi. (34 acres) of the drainage area of Chippewa Reservoir.</p>															
48. AGENCY MAKING SURVEY Soil Conservation Service															
49. AGENCY SUPPLYING DATA Soil Conservation Service															
50. DATE 1975															