

RESERVOIR SEDIMENT DATA SUMMARY

IW-1, Indian Wash Watershed

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NAME OF RESERVOIR

DATA SHEET NO.

DAM	1. OWNER BLM		2. STREAM Indian Wash		3. STATE Colorado			
	4. SEC. 29 TWP. 1N. RANGE 1E		5. NEAREST P.O. Grand Junction		6. COUNTY Mesa			
	7. LAT. 39° 07' 40" LONG. 108° 30' 30"		8. TOP OF DAM ELEVATION 4947.0		9. SPILLWAY CREST ELEV. 4941.7			
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	4941.7	90	1,095.0	1,838.4	April 1966		
	b. MULTIPLE USE							
	c. POWER							
	d. WATER SUPPLY					16. DATE NORMAL OPER. BEGAN		
	e. IRRIGATION							
	f. CONSERVATION					April 1966		
g. INACTIVE	4925.0	43	743.4	743.4				
WATERSHED	17. LENGTH OF RESERVOIR		0.63 MILES		AV. WIDTH OF RESERVOIR 0.22 MILES			
	18. TOTAL DRAINAGE AREA		6.31 SQ. MI.		22. MEAN ANNUAL PRECIPITATION 8.41 INCHES			
	19. NET SEDIMENT CONTRIBUTING AREA		2.3 SQ. MI.		23. MEAN ANNUAL RUNOFF 0.6 INCHES			
	20. LENGTH 4.9 MILES		AV. WIDTH 1.3 MILES		24. MEAN ANNUAL RUNOFF 202 AC.-F.T.			
	21. MAX. ELEV. 7,161		MIN. ELEV. 4,900		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.
	April 1966	-	-	Range	29	90	1,838.4	9.1
	May 1975	9.1	9.1	Range	29	90	1,820.5	9.0
	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	
	*May 1975	17.9	1.97	0.86	17.9	1.97	0.86	
	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	
May 1975				0.11	0.97			

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>*A total of 4.01 square miles (64%) of the drainage area is controlled by 20 small reservoirs which trapped almost all of the sediment delivered to them during the period 1965-1975. This was estimated to be about 33 acre-feet. Almost all of the sediment measured in IW-1 Reservoir was from the 2.30 square miles of uncontrolled drainage.</p> <p>The largest storm from April 1966 to May 1975 occurred in July 18, 1974, and filled the sediment pool to elevation 4904.8 with 119 acre-feet of water. Precipitation at Grand Junction airport was 1.38 inches in one hour.</p>															
48. AGENCY MAKING SURVEY Soil Conservation Service				49. AGENCY SUPPLYING DATA Soil Conservation Service											
						50. DATE <u>January 1981</u>									