

RESERVOIR SEDIMENT
DATA SUMMARY

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

W-6, Wray Watershed

SCS-34 Rev. 6-66

NAME OF RESERVOIR

53-23
DATA SHEET NO.

DAM	1. OWNER Yuma SCD			2. STREAM no name			3. STATE Colorado					
	4. SEC. 12 TWP. 1N RANGE 44W			5. NEAREST P. O. Wray			6. COUNTY Yuma					
	7. LAT. 40° 03' 55" LONG. 102° 14' 04"			8. TOP OF DAM ELEVATION 92.9			9. SPILLWAY CREST ELEV. 87.3					
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		87.3		16		147.2		204.3		May 1959	
	b. MULTIPLE USE											
	c. POWER										16. DATE NORMAL OPER. BEGAN	
	d. WATER SUPPLY											
	e. IRRIGATION											
	f. CONSERVATION											
g. INACTIVE		75.1		6		57.1		57.1				
WATERSHED	17. LENGTH OF RESERVOIR				0.2 MILES		AV. WIDTH OF RESERVOIR				0.13 MILES	
	18. TOTAL DRAINAGE AREA				1.70 SQ. MI.		22. MEAN ANNUAL PRECIPITATION				18 INCHES	
	19. NET SEDIMENT CONTRIBUTING AREA				1.67 SQ. MI.		23. MEAN ANNUAL RUNOFF				0.4 INCHES	
	20. LENGTH 2.0 MILES		AV. WIDTH 0.8 MILES		24. MEAN ANNUAL RUNOFF				36 AC.-F.T.			
	21. MAX. ELEV. 3.870		MIN. ELEV. 3,600		25. ANNUAL TEMP: MEAN 51 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.			
	May 1959		-	-	-	-	16	204.3	5.6			
	Mar. 1971		11.8	11.8	Range	18	16	196.6	5.4			
	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				
	Mar. 1971		7.7	0.65	0.39	7.7	0.65	0.39				
	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					
Mar. 1971						0.3	3.8					

The assumed elevation of 100 hundred feet is about equal to elevation 3,635 feet above mean sea level.

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

48. AGENCY MAKING SURVEY Soil Conservation Service
 49. AGENCY SUPPLYING DATA Soil Conservation Service
 50. DATE February 1972