

RESERVOIR SEDIMENT
DATA SUMMARY

SCS-34 Rev. 6-66

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

RW-1, Roatcap Wash Watershed

NAME OF RESERVOIR

63-21

DATA SHEET NO.

DAM	1. OWNER			2. STREAM <u>Roatcap Wash</u>			3. STATE <u>Colorado</u>								
	4. SEC. <u>21-22TWP. 50N</u> RANGE <u>11W</u>			5. NEAREST P.O. <u>Olathe</u>			6. COUNTY <u>Montrose</u>								
	7. LAT. <u>38 34' 30"</u> LONG. <u>108° 05' 45"</u>			8. TOP OF DAM ELEVATION <u>1043.6</u>			9. SPILLWAY CREST ELEV. <u>1038.3</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		<u>1038.3</u>		<u>50</u>		<u>634.3</u>		<u>829.6</u>						
	b. MULTIPLE USE														
	c. POWER														
	d. WATER SUPPLY										16. DATE NORMAL OPER. BEGAN				
	e. IRRIGATION														
	f. CONSERVATION										December 1964				
g. INACTIVE		<u>1019.0</u>		<u>20</u>		<u>195.3</u>		<u>195.3</u>							
WATERSHED	17. LENGTH OF RESERVOIR				MILES		AV. WIDTH OF RESERVOIR				MILES				
	18. TOTAL DRAINAGE AREA				<u>11.6</u>		SQ. MI.		22. MEAN ANNUAL PRECIPITATION				<u>9</u> INCHES		
	19. NET SEDIMENT CONTRIBUTING AREA				<u>11.5</u>		SQ. MI.		23. MEAN ANNUAL RUNOFF				<u>0.2 1/</u> INCHES		
	20. LENGTH		<u>9.0</u> MILES		AV. WIDTH		<u>1.3</u> MILES		24. MEAN ANNUAL RUNOFF				<u>118</u> AC.-F.T.		
	21. MAX. ELEV.		<u>7,500</u>		MIN. ELEV.		<u>5,700</u>		25. ANNUAL TEMP: MEAN				<u>50°F</u> RANGE <u>26°-73°F</u> (Montrose)		
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.		
	Dec. 1964		--	--	--		--		50		829.6		7.7		
	Nov. 1970		6	6	Range		19		50		810.0		6.9		
	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		
	Nov. 1970		19.6		3.27		0.28		19.7		3.27		0.28		
	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	
Nov. 1970								0.4		2.4					

Note: The assumed elevation of 1,000 feet is approximately equal to elevation 5,660 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
	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 21, 1969, when water ponded in the reservoir up to about elevation 1010.0 feet.

1/ Atlas HA-212, USGS 1966

48. AGENCY MAKING SURVEY Soil Conservation Service
49. AGENCY SUPPLYING DATA Same
50. DATE March 1971