

RESERVOIR SEDIMENT

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

DATA SUMMARY

Santa Cruz River Watershed - Site 5

SCS-34 Form 6-66

Pojoaque-Santa Cruz & East Rio Arriba Natural
Resource Conservation Districts

57-26

DATA SHEET NO.

DAM	1. OWNER				2. STREAM <u>Morada Arroyo</u>		3. STATE <u>New Mexico</u>	
	4. SEC. <u>33</u>		TWP. <u>T21N</u>		RANGE <u>R9E</u>		5. NEAREST P. O. <u>Chimayo</u>	
	6. COUNTY <u>Rio Arriba</u>		7. LAT <u>36° 00' 18"</u>		LONG. <u>105° 59' 13"</u>		8. TOP OF DAM ELEVATION <u>5922.6</u>	
RESERVOIR	10. STORAGE ALLOCATION		11. ELEVATION TOP OF POOL		12. ORIGINAL SURFACE AREA, ACRES		13. ORIGINAL CAPACITY, ACRE-FEET	
	a. FLOOD CONTROL		<u>5918.6</u>		<u>4/ 11.6</u>		<u>72</u>	
	b. MULTIPLE USE						<u>138</u>	
	c. POWER							
	d. WATER SUPPLY							
	e. IRRIGATION							
	f. CONSERVATION							
	g. INACTIVE		<u>5911.0 1/</u>		<u>7.2</u>		<u>66</u>	
WATERSHED	17. LENGTH OF RESERVOIR <u>0.23</u> MILES				AV. WIDTH OF RESERVOIR <u>0.079</u> MILES			
	18. TOTAL DRAINAGE AREA <u>1.31</u> SQ. MI.				22. MEAN ANNUAL PRECIPITATION <u>4/ 9.63</u> INCHES			
	19. NET SEDIMENT CONTRIBUTING AREA <u>1.30</u> SQ. MI.				23. MEAN ANNUAL RUNOFF <u>0.1</u> INCHES			
	20. LENGTH <u>2.8</u> MILES		AV. WIDTH <u>0.5</u> MILES		24. MEAN ANNUAL RUNOFF <u>7.0</u> AC.-FT.			
	21. MAX. ELEV. <u>6650'</u> MSL		MIN. ELEV. <u>5890</u>		25. ANNUAL TEMP. MEAN <u>51.1</u> RANGE <u>23°+106°</u> F.			
SURVEY DATA	26. DATE OF SURVEY		27. PERIOD YEARS		28. ACCL. YEARS		29. TYPE OF SURVEY	
	<u>2/ 1962</u>		<u>-</u>		<u>-</u>		<u>Contour "D"</u>	
	<u>9/74</u>		<u>3/ 12</u>		<u>12</u>		<u>" "D"</u>	
							30. NO. OF RANGES OR CONTOUR INT.	
							<u>4'</u>	
							<u>4'</u>	
							<u>4/ 11.6</u>	
							<u>13.1</u>	
							<u>138</u>	
							<u>90.02</u>	
						<u>29.7</u>		
						<u>12.89</u>		
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. TOTAL TO DATE	
				b. MAX. ANNUAL				
				c. PERIOD TOTAL				
				a. MEAN ANNUAL				
				b. TOTAL TO DATE				
				-			-	
				Dry pool - No records			-	
				-			-	
26. DATE OF SURVEY		37. PERIOD CAPACITY LOSS, ACRE-FEET			38. TOTAL SED. DEPOSITS TO DATE, ACRE-FEET			
		a. PERIOD TOTAL			b. AV. ANNUAL			
		b. AV. ANNUAL			c. PER SQ. MI.-YEAR			
		a. TOTAL TO DATE			b. AV. ANNUAL			
		c. PER SQ. MI.-YEAR						
		<u>47.98</u>			<u>4.0</u>			
		<u>4.0</u>			<u>3.09</u>			
		<u>47.98</u>			<u>4.0</u>			
		<u>3.09</u>						
26. DATE OF SURVEY		39. AV. DRY WGT., LBS. PER CU. FT.		40. SED. DEP., TONS PER SQ. MI.-YR.		41. STORAGE LOSS, PCT.		
		a. PERIOD		b. TOTAL TO DATE		a. AV. ANN.		
		b. TOTAL TO DATE		a. AV. ANN.		b. TOT. TO DATE		
		a. PERIOD		b. TOT. TO DATE		a. PERIOD		
		b. TOT. TO DATE		a. PERIOD		b. TOT. TO DATE		
		<u>91</u>		<u>6134</u>		<u>2.897</u>		
		<u>6134</u>		<u>6134</u>		<u>34.77</u>		
		<u>91</u>		<u>6134</u>		<u>34.77</u>		
		<u>6134</u>		<u>6134</u>		<u>34.77</u>		

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>1/ Sediment pool elevation. Dry pool.</p> <p>2/ Pool area survey 1961, modified after construction in 1962.</p> <p>3/ 12 runoff seasons.</p> <p>4/ Work plan data.</p> <p>Geology: Exposed Santa Fe Group, consisting of mudstone, fine sandstone, and uncemented sand and gravel and small areas of recent fan deposits. Vegetative cover less than 15%</p> <p>Land Use: 100% range.</p>															
48. AGENCY MAKING SURVEY										USDA - Soil Conservation Service					
49. AGENCY SUPPLYING DATA										USDA - Soil Conservation Service					
												50. DATE		7/75	