

RESERVOIR SEDIMENT  
DATA SUMMARY

SANTA CRUZ RIVER WATERSHED  
Site #2 (Encino)

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

SCS-34 Rev. 6-66

NAME OF RESERVOIR

57-24

DATA SHEET NO.

DAM	1. OWNER <u>Pojoaque-Santa Cruz &amp; Espanola Valley NRCDS</u>			2. STREAM <u>Encino Arroyo</u>		3. STATE <u>New Mexico</u>									
	4. SEC. <u>36</u> TWP. <u>21N.</u> RANGE <u>9E.</u>			5. NEAREST P.O. <u>Chimayo</u>		6. COUNTY <u>Rio Arriba</u>									
	7. LAT. <u>36° 00' 49"</u> LONG. <u>105° 56' 09"</u>			8. TOP OF DAM ELEVATION <u>6245.6</u>		9. SPILLWAY CREST ELEV. <u>6242.6</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>6242.6</u>		<u>15.1</u>		<u>76.0</u>		<u>156.0</u>		<u>9/27/62</u>				
	b. MULTIPLE USE														
	c. POWER														
	d. WATER SUPPLY														
	e. IRRIGATION										<u>9/27/62</u>				
	f. CONSERVATION														
	g. INACTIVE 1/		<u>6236.7</u>		<u>10.4</u>		<u>80.0</u>		<u>80.0</u>						
17. LENGTH OF RESERVOIR <u>0.151</u> MILES				AV. WIDTH OF RESERVOIR <u>0.156</u> MILES											
WATERSHED	18. TOTAL DRAINAGE AREA <u>1.56</u> SQ. MI.				22. MEAN ANNUAL PRECIPITATION <u>9.63</u> INCHES										
	19. NET SEDIMENT CONTRIBUTING AREA <u>1.54</u> SQ. MI.				23. MEAN ANNUAL RUNOFF <u>0.2</u> INCHES										
	20. LENGTH <u>2.1</u> MILES		AV. WIDTH <u>0.743</u> MILES		24. MEAN ANNUAL RUNOFF <u>16.64</u> AC.-FT.										
	21. MAX. ELEV. <u>7,400</u>		MIN. ELEV. <u>6212.6</u>		25. ANNUAL TEMP: MEAN <u>51.1°</u> RANGE <u>-23° to 106°</u> F										
	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.
<u>9/27/62</u>		<u>-</u>		<u>-</u>		<u>Range-Contour 4' C.I.</u>		<u>15.1</u>		<u>156.0</u>		<u>9.38</u>			
<u>2/71</u>		<u>8<sup>2</sup>/</u>		<u>8.4</u>		<u>Range -D-</u>		<u>13 ranges</u>		<u>15.1</u>		<u>46.1</u>		<u>2.77</u>	
<u>6/74</u>		<u>3</u>		<u>11</u>		<u>Range "D"</u>		<u>13 ranges</u>		<u>15.1</u>		<u>32.46</u>		<u>1.95</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. MAX. ANNUAL		c. PERIOD TOTAL		a. MEAN ANNUAL		b. TOTAL TO DATE			
<u>2/71</u>		<u>9.63</u>		<u>Dry Pool - No Records</u>											
<u>6/74</u>				<u>" " " "</u>											
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			
<u>2/71</u>		<u>109.9</u>		<u>13.07<sup>2</sup>/</u>		<u>8.94</u>		<u>109.9</u>		<u>13.74</u>		<u>8.94</u>			
<u>6/74</u>		<u>13.62</u>		<u>4.55</u>		<u>2.96</u>		<u>123.52</u>		<u>11.23</u>		<u>7.31</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.		42. SED. INFLOW, PPM							
				a. PERIOD		b. TOTAL TO DATE		a. AV. ANN.		b. TOT. TO DATE		a. PERIOD		b. TOT. TO DATE	
<u>2/71</u>								<u>8.81</u>		<u>70.45</u>					
<u>6/74</u>								<u>7.2</u>		<u>79.2</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

1/ Sediment pool elevation  
 2/ 8 runoff seasons.  
 Land Use: 100% range.  
 Geology: Santa Fe Group "badlands" and modern valley fill. Vegetative cover less than 15%.

48. AGENCY MAKING SURVEY USDA, Soil Conservation Service, Santa Fe Field Office  
 49. AGENCY SUPPLYING DATA USDA - Soil Conservation Service

50. DATE 11-21-74