

RESERVOIR SEDIMENT
DATA SUMMARY

Watershed, Santa Cruz River
Site #3 (Ramones Arroyo)

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

SCS-34 Rev. 6-66

NAME OF RESERVOIR

57-19

DATA SHEET NO.

Pojoaque-Santa Cruz &

DAM	1. OWNER Espanola Valley SCD's		2. STREAM Ramones Arroyo		3. STATE New Mexico			
	4. SEC. 26 TWP. 21N RANGE 9E		5. NEAREST P.O. Chimayo		6. COUNTY Rio Arriba			
	7. LAT. 36° 1' 3" LONG 105° 27' 29"		8. TOP OF DAM ELEVATION 6156.0		9. SPILLWAY CREST ELEV. 6153.0			
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	6153.0	11.92	56.4	111.0	9/27/62		
	b. MULTIPLE USE							
	c. POWER							
	d. WATER SUPPLY					16. DATE NORMAL OPER. BEGAN		
	e. IRRIGATION					9/27/62		
	f. CONSERVATION							
g. INACTIVE	6145.2 ^{1/}	7.4	54.6	54.6				
WATERSHED	17. LENGTH OF RESERVOIR 0.1 MILES		AV. WIDTH OF RESERVOIR 0.18 MILES					
	18. TOTAL DRAINAGE AREA 1.17 SQ. MI.		22. MEAN ANNUAL PRECIPITATION 9.63 INCHES					
	19. NET SEDIMENT CONTRIBUTING AREA 1.16 SQ. MI.		23. MEAN ANNUAL RUNOFF 0.2 INCHES					
	20. LENGTH 1.5 MILES		AV. WIDTH 0.78 MILES		24. MEAN ANNUAL RUNOFF 12.48 AC.-FT.			
	21. MAX. ELEV. 6,800		MIN. ELEV. 6,122		25. ANNUAL TEMP: MEAN 51.1° RANGE 27°-74°F			
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.
	9/27/62	--	--	Range Contour D	4' C.I.	11.92	111.0	8.9
	1/69	6.3	6.3 ^{2/}	do	4 Ranges	11.92	69.0	5.5
	10/69	0.7	7.0 ^{3/}	do	4 Ranges	11.92	37.5	3.0
	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
	1/69	9.63		Dry Pool - no records				
	10/69	9.63		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	c. PER SQ. MI.-YEAR	a. TOTAL TO DATE	b. AV. ANNUAL	c. PER SQ. MI.-YEAR	
	1/69	42.0	7.0	6.03	42.0	7.0	6.03	
	10/69	31.5	31.5	27.16	73.5	10.5	9.05	
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	
1/69	110*	14,446	14,446	6.31	37.83	--	--	
10/69	110*	102,597	21,681	9.46	66.26	--	--	

* Assumed

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/ Dry pool-sediment pool elevation
 2/ 6 runoff seasons
 3/ 7 runoff seasons

Land Use: 100% Range, vegetative cover less than 15 percent
 Geology: dissected Santa Fe Group of Sands, Sandstones, Silts & Siltstones, and modern valley fill.

48. AGENCY MAKING SURVEY Soil Conservation Service
 49. AGENCY SUPPLYING DATA Same
 50. DATE October 1970