

RESERVOIR SEDIMENT
DATA SUMMARY

SCS-34 Rev. 6-66

Santa Cruz River Watershed
Site #6 (Alamo Arroyo)

NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

57-18

DATA SHEET NO.

DAM	1. OWNER				2. STREAM Alamo Arroyo		3. STATE New Mexico					
	4. SEC. 9 TWP. 2 N RANGE 9E				5. NEAREST P.O. Chimayo		6. COUNTY Santa Fe					
	7. LAT. 35°58'30" LONG. 105°58'55"				8. TOP OF DAM ELEVATION 5926.7		9. SPILLWAY CREST ELEV. 5923.6					
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		5923.6		21.1		144.00		232.00		4/10/62	
	b. MULTIPLE USE										16. DATE NORMAL OPER. BEGAN	
	c. POWER											
	d. WATER SUPPLY											
	e. IRRIGATION											
	f. CONSERVATION											
g. INACTIVE		5914.6 <u>1/</u>		11.83		88.0		88.0		4/10/62		
WATERSHED	17. LENGTH OF RESERVOIR 0.549 <u>2/</u> MILES				AV. WIDTH OF RESERVOIR 0.060 MILES							
	18. TOTAL DRAINAGE AREA 3.15 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 9.63 INCHES							
	19. NET SEDIMENT CONTRIBUTING AREA 3.12 SQ. MI.				23. MEAN ANNUAL RUNOFF 0.2 INCHES							
	20. LENGTH 2.60 MILES		AV. WIDTH 1.21 MILES		24. MEAN ANNUAL RUNOFF 33.6 AC.-FT.							
	21. MAX. ELEV. 6,600		MIN. ELEV. 5894.5		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.			
	4/62		--	--	Range	4' C.I.	21.1	232.00	6.90			
	12/68		6.7 <u>3/</u>	6.7	Contour D Range D	7	21.1	160.0	4.76			
	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			
	12/68		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				
	12/68		72.0	10.3 <u>3/</u>	3.30 <u>3/</u>	72.0 <u>3/</u>	10.3 <u>3/</u>	3.30 <u>3/</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					
12/68		100*	7,187	7,187	4.44	31.0	--	--				

* 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/ North arm 1000 feet & south arm 1900 feet
 3/ 7 runoff seasons

Land use: Range 100%; vegetative cover less than 15%
 Geology: Dissected Santa Fe Group (sands, silts, sandstone and siltstone) and Quaternary alluvium.

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

RESERVOIR SEDIMENT
DATA SUMMARY

Santa Cruz River Watershed
Site #6 (Alamo Arroyo)

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

SCS-34 Rev. 6-66

NAME OF RESERVOIR

57-18a

DATA SHEET NO.

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

DAM	1. OWNER		2. STREAM Alamo Arroyo		3. STATE New Mexico			
	4. SEC. 9 TWP. 20N RANGE 9E		5. NEAREST P.O. Chimayo		6. COUNTY Santa Fe			
	7. LAT 35° 58' 30" LONG 105° 59' 26"		8. TOP OF DAM ELEVATION 5926.7		9. SPILLWAY CREST ELEV. 5923.6			
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	5923.6	21.1	144.00	232.00			
	b. MULTIPLE USE					4/10/62		
	c. POWER							
	d. WATER SUPPLY					16. DATE NORMAL OPER. BEGAN		
	e. IRRIGATION							
	f. CONSERVATION							
WATERSHED	17. LENGTH OF RESERVOIR 0.549 MILES		AV. WIDTH OF RESERVOIR 0.060 MILES					
	18. TOTAL DRAINAGE AREA 3.15 SQ. MI.		22. MEAN ANNUAL PRECIPITATION 9.63 INCHES					
	19. NET SEDIMENT CONTRIBUTING AREA 3.12 SQ. MI.		23. MEAN ANNUAL RUNOFF 0.1 2/ INCHES					
	20. LENGTH 2.60 MILES		AV. WIDTH 1.21 MILES		24. MEAN ANNUAL RUNOFF 16.8 2/ AC.-F.T.			
	21. MAX. ELEV. 6,600		MIN. ELEV. 5894.5		25. ANNUAL TEMP.: MEAN 51.1° RANGE -23° to 106°			
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.
	4/62	-	-	Range Contour D	4' C.I.	21.1	232.00	13.81
	12/68	3/6.7	3/6.7	Range D	7 ranges	21.1	160.00	9.52
	5/75	6.3	13	Contour D	1' C.I.	21.45	81.66	4.86
	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		
	12/68	9.63		-			Dry Pool - No Records	
	4/75							
	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	
12/68	72.0	10.75	3.45	72.0	10.75	3.45		
4/75	78.34	12.43	3.99	150.34	11.56	3.71		
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	
12/68	100*	7,509	7,509	4.63	31.0	-	-	
4/75	81	5,521	6,545	5.0	65	-	-	

* 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/ Corrected 7/75.
 3/ 7 runoff seasons.

Land use: Range 100%; vegetative cover less than 15%
 Geology: Dissected Santa Fe Group (sands, silts, sandstone, and siltstone) and Recent alluvium.

48. AGENCY MAKING SURVEY USDA-Soil Conservation Service, River Basins July 1975
 49. AGENCY SUPPLYING DATA USDA-Soil Conservation Service, WSP ^{50. DATE} _____