

**RESERVOIR SEDIMENT
DATA SUMMARY**

SCS-34 Rev. 6-66

North Salem (Hatch Valley Arroyo Watershed) Site No. 2

NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

57-20

DATA SHEET NO.

DAM	1. OWNER Caballo Soil Cons. Dist		2. STREAM North Salem Arroyo		3. STATE New Mexico			
	4. SEC. 25 TWP. 18S RANGE 4W		5. NEAREST P.O. Salem		6. COUNTY Dona Ana			
	7. LAT. 32° 43' 00" LONG. 107° 12' 30"		8. TOP OF DAM ELEVATION 4139.59		9. SPILLWAY CREST ELEV. 4133.89			
RESERVOIR	10. STORAGE ALLOCATION	11. ELEVATION TOP OF POOL	12. ORIGINAL 1/ SURFACE AREA, ACRES	13. ORIGINAL 1/ CAPACITY, ACRE-FEET	14. GROSS STORAGE, ACRE-FEET	15. DATE STORAGE BEGAN		
	a. FLOOD CONTROL	4133.89	23.36	146.61	207.25	4/29/57		
	b. MULTIPLE USE							
	c. POWER							
	d. WATER SUPPLY					16. DATE NORMAL OPER. BEGAN		
	e. IRRIGATION							
	f. CONSERVATION					4/29/57		
g. INACTIVE	4126.23	12.15	60.64	60.64				
WATERSHED	17. LENGTH OF RESERVOIR 0.185 MILES			AV. WIDTH OF RESERVOIR 0.180 MILES				
	18. TOTAL DRAINAGE AREA 3.8 SQ. MI.		22. MEAN ANNUAL PRECIPITATION 8.94 INCHES					
	19. NET SEDIMENT CONTRIBUTING AREA 3.8 SQ. MI.		23. MEAN ANNUAL RUNOFF 2/ 0.1 INCHES					
	20. LENGTH 4.8 MILES		AV. WIDTH 0.5 MILES		24. MEAN ANNUAL RUNOFF 20.3 AC.-FT.			
	21. MAX. ELEV. 4940		MIN. ELEV. 4113.69		25. ANNUAL TEMP: MEAN 59°F RANGE 41°-80°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.
	4/29/57	--	--	--	--	23.36	204.71	10.1
	8/24/67	10.25	10.25	Contour D	2 ft. C.I.	23.22	190.82	9.4
	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		
	8/24/67	10.13	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	
	8/24/67	13.89	1.35	0.35	13.89	1.35	0.35	
	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	
8/24/67	98.5 (2)	750.9	750.9	0.65	6.70	--	--	

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET BELOW, AND ABOVE, CREST ELEVATION														
						17.89	15.89	11.89	9.89	5.89	3.89	1.89	Crest		
	PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION														
8/24/67						3	21	70	15	10	-2	-18	1		
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														
8/24/67	32	27	21	5	7	1	1	4	1	1					

45. RANGE IN RESERVOIR OPERATION							
WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW, AC.-FT.	WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW, AC.-FT.
Dry Pool							

46. ELEVATION-AREA-CAPACITY DATA								
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY
Original Capacity		1957	18	2.52	3.03	22	5.64	8.03
33.89	23.36	44.58	16	0.70	.47	20	2.60	2.04
32	21.23	37.93	Capacity 1967			18	0.22	0.15
30	18.55	33.69	33.89	23.22	44.48			
28	15.20	27.28	32	21.28	40.46			
26	12.15	21.46	30	19.22	33.94			
24	9.38	16.44	28	14.82	26.68			
22	7.12	12.27	26	11.92	20.68			
20	5.20	7.56	24	8.84	14.36			

47. REMARKS AND REFERENCES

1/ Original capacity and surface acres reconstructed in 1967 from field surveys and sediment probe conducted in 1959.

2/ New Mexico State Eng. Tech. Report 31, Fig. 8.

Land Use: Range 99.5%; .05 Interstate right -of-way, constructed in period '57-'67.

Geology: Santa Fe Group 100%.

48. AGENCY MAKING SURVEY Soil Conservation Service

49. AGENCY SUPPLYING DATA Same

50. DATE 2/14/68