

RESERVOIR SEDIMENTATION
DATA SUMMARY

Santa Cruz

NAME OF RESERVOIR

57 - 3

DATA SHEET NO.

DAM	1. OWNER Santa Cruz Irrig. Co.		2. RIVER Santa Cruz		3. STATE New Mexico		
	4. SEC. 7 TWP. 20 N RANGE 10 E		5. NEAREST TOWN Espanola		6. COUNTY Santa Fe		
	7. STREAM BED ELEV.		8. TOP OF DAM ELEV. 103 ?		9. SPILLWAY CREST ELEV. 100 ?		
RESERVOIR	10. STORAGE ALLOCATION	11. ELEVATION TOP OF POOL	12. SURFACE AREA ACRES	13. STORAGE ACRE- FEET	14. ACCUMULATED ACRE- FEET	15. DATE STORAGE BEGAN	
	a. FLOOD CONTROL					Feb. 1929	
	b. POWER						
	c. WATER SUPPLY						
	d. IRRIGATION	100	100.03	4,464.53		16. DATE NORMAL OPER. BEGAN	
	e. CONSERVATION					1929	
	f. INACTIVE						
17. LENGTH OF RESERVOIR .8		MILES		AV. WIDTH OF RESERVOIR .2		MILES	
WATERSHED	18. TOTAL DRAINAGE AREA 93.1		SQ. MI.		22. MEAN ANNUAL PRECIPITATION 17		INCHES
	19. NET SEDIMENT CONTRIBUTING AREA 93.1		SQ. MI.		23. MEAN ANNUAL RUNOFF		INCHES
	20. LENGTH MILES		AV. WIDTH MILES		24. MEAN ANNUAL RUNOFF 23,530		AG-FT.
	21. MAX. ELEV. 12,500		MIN. ELEV. 6,400		25. CLIMATIC CLASSIFICATION		
	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
Feb. 1929 Aug. 1956	27.4	27.4	Range	7	100.03 100.03	4,464 3,758	48 40
SURVEY DATA	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.
	1943 - 195		23,530	28,200	194,200		194,200
26. DATE OF SURVEY	37. PERIOD SEDIMENT DEPOSITS 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	
1956	706	25.7	.27	706	25.7	.27	
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. ANNUAL	b. TOT. TO DATE	a. PERIOD	b. TOT. TO DATE
1956	80	384	384	.57	15.8		

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET ABOVE, AND BELOW, 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.
1943			16,800	1949			23,100
1944			24,600	1950			5,700
1945			28,200	1951			7,800
1946			10,600	1952			24,700
1947			11,700	1953			16,300
1948			24,700				

46. ELEVATION-AREA-CAPACITY DATA								
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY

47. REMARKS AND REFERENCES

Soil Conservation Service

48. AGENCY SUPPLYING DATA

49. DATE November 1956

U.S. DEPARTMENT OF AGRICULTURE
**RESERVOIR SEDIMENTATION
DATA SUMMARY**

Santa Cruz
NAME OF RESERVOIR

SOIL CONSERVATION SERVICE
57- 3a
DATA SHEET NO.

DAM	1. OWNER <u>Santa Cruz Irrig. Co.</u>			2. RIVER <u>Santa Cruz</u>			3. STATE <u>New Mexico</u>			
	4. SEC. <u>7</u> TWP. <u>20 N</u> RANGE <u>10 E</u>			5. NEAREST TOWN <u>Espanola</u>			6. COUNTY <u>Santa Fe</u>			
	7. STREAM BED ELEV.			8. TOP OF DAM ELEV. <u>103 ?</u>			9. SPILLWAY CREST ELEV. <u>100 ?</u>			
RESERVOIR	10. STORAGE ALLOCATION	11. ELEVATION TOP OF POOL	12. SURFACE AREA ACRES	13. STORAGE ACRE- FEET	14. ACCUMULATED ACRE- FEET	16. DATE STORAGE BEGAN				
	a. FLOOD CONTROL					Feb. 1929				
	b. POWER									
	c. WATER SUPPLY					16. DATE NORMAL OPER. BEGAN				
	d. IRRIGATION	<u>100</u>	<u>100.03</u>	<u>4,464.53</u>						
	e. CONSERVATION									
	f. INACTIVE					1929				
17. LENGTH OF RESERVOIR <u>.8</u> MILES			AV. WIDTH OF RESERVOIR <u>.2</u> MILES							
WATERSHED	18. TOTAL DRAINAGE AREA <u>93.1</u> SQ. MI.			22. MEAN ANNUAL PRECIPITATION <u>17</u> INCHES						
	19. NET SEDIMENT CONTRIBUTING AREA <u>93.1</u> SQ. MI.			23. MEAN ANNUAL RUNOFF <u>4.7</u> INCHES						
	20. LENGTH <u> </u> MILES		AV. WIDTH <u> </u> MILES		24. MEAN ANNUAL RUNOFF <u>23,530</u> AC.-FT.					
	21. MAX. ELEV. <u>12,500</u>		MIN. ELEV. <u>6,400</u>		25. CLIMATIC CLASSIFICATION					
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 _w RATIO AC.-FT. PER SQ. MI.		
	<u>Feb. 1929</u> <u>Aug. 1956</u>	<u>27.4</u>	<u>27.4</u>	<u>Range</u>	<u>7</u>	<u>100.03</u> <u>100.03</u>	<u>4,464</u> <u>3,758</u>	<u>48</u> <u>40</u>		
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		a. MEAN ANNUAL	b. MAX. ANNUAL	c. PERIOD TOTAL	d. MEAN ANNUAL	b. TOTAL TO DATE				
	<u>1943 - 195</u>		<u>23,530</u>	<u>28,200</u>	<u>194,200</u>	<u>194,200</u>				
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		a. PERIOD TOTAL	b. AV. ANNUAL	c. PER SQ. MI.-YEAR	d. TOTAL TO DATE	e. AV. ANNUAL	c. PER SQ. MI.-YEAR			
	<u>1956</u>	<u>706</u>	<u>25.7</u>	<u>.27</u>	<u>706</u>	<u>25.7</u>	<u>.27</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	d. AV. ANNUAL	e. TOT. TO DATE	a. PERIOD	b. TOT. TO DATE			
<u>1956</u>	<u>80</u>	<u>470</u>	<u>470</u>	<u>.57</u>	<u>15.8</u>					

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26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET ABOVE, AND BELOW, 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
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ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY

47. REMARKS AND REFERENCES

Soil Conservation Service

November 1956

48. AGENCY SUPPLYING DATA

49. DATE _____

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