

RESERVOIR SEDIMENT
DATA SUMMARY

SCS-34 Rev. 6-66

Williams Reservoir

NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

71-46

DATA SHEET NO.

DAM	1. OWNER San Jose Water Works			2. STREAM Los Gatos Creek			3. STATE California							
	4. SEC. TWP. RANGE			5. NEAREST P. O.			6. COUNTY Santa Clara							
	7. LAT. 37° 07' 09" LONG. 121° 54' 23 "			8. TOP OF DAM ELEVATION 100.0 ^{1/}			9. SPILLWAY CREST ELEV. 100.0 ^{1/}							
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										1895 ^{2/}			
	b. MULTIPLE USE													
	c. POWER													
	d. WATER SUPPLY										16. DATE NORMAL OPER. BEGAN			
	e. IRRIGATION													
	f. CONSERVATION										1895 ^{2/}			
	g. INACTIVE													
WATERSHED	17. LENGTH OF RESERVOIR 0.40 MILES				AV. WIDTH OF RESERVOIR 0.02 MILES									
	18. TOTAL DRAINAGE AREA 5.25 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 45 INCHES									
	19. NET SEDIMENT CONTRIBUTING AREA 5.24 SQ. MI.				23. MEAN ANNUAL RUNOFF INCHES									
	20. LENGTH 3.5 MILES		AV. WIDTH 1.5 MILES		24. MEAN ANNUAL RUNOFF AC.-F.T.									
	21. MAX. ELEV.			MIN. ELEV. 1200 ^{2/}			25. ANNUAL TEMP: MEAN RANGE							
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.		
	1913 March 1971		18 58	18 76	-- Range	-- 21	6.3 4.9		157 108					
	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			
	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				
	1913 March 1971		-- 49	-- 0.84	-- 0.16	-- 49		-- .84		-- 0.16				
	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						
1913 March 1971		-- 65	-- 227	-- 227										

1/ Assumed

2/ Approximate

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

Survey results apply to period 1913-71. Capacity and sediment deposition prior to 1913 are unknown.

48. AGENCY MAKING SURVEY U.S. Geological Survey
 49. AGENCY SUPPLYING DATA Water Resources Division
 Menlo Park, California

50. DATE 12-10-76