

**RESERVOIR SEDIMENT
DATA SUMMARY**

SCS-34 Rev. 6-62

Leo Trentadue
NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

72-21

DATA SHEET NO.

DAM	1. OWNER Leo Trentadue			2. STREAM Trib. Dry Creek			3. STATE California									
	4. SEC. SE ¹ / ₄ 22 TWP. 10N RANGE 10W			5. NEAREST TOWN Geyserville			6. COUNTY Sonoma									
	7. STREAM BED ELEVATION 77.4*			8. TOP OF DAM ELEVATION 100.0*			9. SPILLWAY CREST ELEV. 97.1*									
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. MULTIPLE USE										August 1961					
	b. FLOOD CONTROL															
	c. POWER															
	d. WATER SUPPLY										16. DATE NORMAL OPER. BEGAN					
	e. IRRIGATION		97.1		1.00		10.30		10.30		August 1961					
	f. CONSERVATION															
	g. SEDIMENT															
	h. INACTIVE															
WATERSHED	17. LENGTH OF RESERVOIR 0.06 MILES				AV. WIDTH OF RESERVOIR 0.03 MILES											
	18. TOTAL DRAINAGE AREA (24.4 acres) 0.038 SQ. MI.				22. MEAN ANNUAL PRECIPITATION (70 yr.) 46 INCHES											
	19. NET SEDIMENT CONTRIBUTING AREA 0.037 SQ. MI.				23. MEAN ANNUAL RUNOFF 23 INCHES											
	20. LENGTH 0.21 MILES		AV. WIDTH 0.17 MILES		24. MEAN ANNUAL RUNOFF 46.7 ¹ / ₂ AC.-FT.											
	21. MAX. ELEV. 442		MIN. ELEV. 77.4		25. CLIMATIC CLASSIFICATION humid											
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.	
	8-61 ² / ₁		-		-		-		-		1.00		10.30		278	
	10-8-65		4		4		Range (D)		6 ranges		1.00		9.86		259	
	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			
	10-8-65		46 in.		46.7 ¹ / ₂		71.8		186.8		45.8		186.8			
	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			
	10-8-65		0.44		0.11		2.97 ³ / ₁		0.44		0.11		2.97 ³ / ₁			
	26. DATE OF SURVEY		39. AV. DRY WGT. LBS. PER CU. FT.		40. SED. DEP. TONS PERSQ. MI.-YR.		41. STORAGE LOSS PCT.		42. SED. INFLOW PPM							
				a. PERIOD		b. TOTAL TO DATE		a. AV. AN.		b. TOT. TO DATE		a. PERIOD		b. TOT. TO DATE		
10-8-65		66 ⁴ / ₁		4269		4269		1.07		4.27		2487		2487		

* Assumed datum - Add 163 feet to obtain approximate M.S.L. elevations.

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														
10-8-65	9.1	13.6	17.0	10.2	11.4	14.8	10.2	4.5	4.5	4.7					

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/Item 23, 24, 35 and 36 are based on U.S.Geological Survey stream flow records for the 4 year period 1961-1965.
 2/Original data obtained during 1965 survey.
 3/Total yield from watershed computed to be 3.19 ac.ft./sq.mi./yr.using trap efficiency of 93 percent.
 4/One undisturbed sample taken which represents 7% total sediment. The remainder assumed to be 65 lbs./cu.ft. Sample was ML and 79.5 lbs./cu.ft.

48. AGENCY MAKING SURVEY USDA, Soil Conservation Service; Berkeley, California.
 49. AGENCY SUPPLYING DATA same 50. DATE 1/7/66

Geology: Great Valley sequence - cretaceous sandstone, shale and conglomerate.
 Land use: 100% brush land.