

RESERVOIR SEDIMENT  
DATA SUMMARY

SCS-34 Rev. 6-62

Hazel Hill

NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

72-22

DATA SHEET NO.

DAM	1. OWNER Hazel Hill			2. STREAM Trib. Dry Creek			3. STATE California									
	4. SEC 38 <sup>043</sup> TWP 122 <sup>057</sup> RANGE			5. NEAREST TOWN Geyserville			6. COUNTY Sonoma									
	7. STREAM BED ELEVATION 85*			8. TOP OF DAM ELEVATION 108*			9. SPILLWAY CREST ELEV. 103*									
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										October 1960					
	b. FLOOD CONTROL															
	c. POWER															
	d. WATER SUPPLY															
	e. IRRIGATION		103		1.5		21.5		21.5		16. DATE NORMAL OPER. BEGAN					
	f. CONSERVATION										October 1960					
	g. SEDIMENT															
h. INACTIVE																
17. LENGTH OF RESERVOIR 0.1 MILES				AV. WIDTH OF RESERVOIR 0.02 MILES												
WATERSHED	18. TOTAL DRAINAGE AREA (112 acres) 0.175 SQ. MI.				22. MEAN ANNUAL PRECIPITATION (70 yrs) 46 INCHES											
	19. NET SEDIMENT CONTRIBUTING AREA 0.173 SQ. MI.				23. MEAN ANNUAL RUNOFF 23 1/2 INCHES											
	20. LENGTH 0.47 MILES		AV. WIDTH 0.20 MILES		24. MEAN ANNUAL RUNOFF 217 1/2 AC.-FT.											
	21. MAX. ELEV. 309*		MIN. ELEV. 85*		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.	
	10-60 <sup>2/</sup>		-		-		-		-		1.5		21.50		122.86	
	10-7-65		5		5		Range (D)		4 ranges		1.5		21.04		120.23	
	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			
	10-7-65		46		217		350		1132		217		1132			
	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			
	10-7-65		0.46		0.09		0.52 <sup>3/</sup>		0.46		0.09		0.52 <sup>3/</sup>			
	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. AN.		b. TOT. TO DATE		a. PERIOD		b. TOT. TO DATE				
10-7-65		65 <sup>4/</sup>		736		736		0.42		2.14		423		423		

\*Assumed datum - Add 315 feet to convert to 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														
10-7-65	6.5	19.5	19.5	15.2	13.0	8.7	8.7	4.3	2.3	2.3					

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 streamflow records for the 5 year period 1960-1965.  
 2/ Original data obtained as a result of 1965 survey.  
 3/ Total yield from watershed computed to be 0.61 ac.ft./sq.mi./yr. using trap efficiency of 87 percent.  
 4/ Assumed value based on undisturbed samples from other reservoirs in Dry Creek Watershed.

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

Geology: Cretaceous Great Valley sequence composed of sandstone, shale and conglomerate.  
 Land Use: Brush 47%; Woodland 53%.