

**RESERVOIR SEDIMENT  
DATA SUMMARY**

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

SCS-34 Rev. 6-66

Appleton  
NAME OF RESERVOIR

72-30

DATA SHEET NO.

DAM	1. OWNER <u>Appleton</u>			2. STREAM <u>unnamed</u>			3. STATE <u>California</u>					
	4. SEC. <u>35</u> TWP. <u>9N</u> RANGE <u>9W</u>			5. NEAREST P.O. <u>Healdsburg</u>			6. COUNTY <u>Sonoma</u>					
	7. LAT. <u>38° 35' N</u> LONG <u>122° 49' W</u>			8. TOP OF DAM ELEVATION <u>100*</u>			9. SPILLWAY CREST ELEV. <u>96.5*</u>					
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										1950	
	b. MULTIPLE USE											
	c. POWER											
	d. WATER SUPPLY										16. DATE NORMAL OPER. BEGAN	
	e. IRRIGATION											
	f. CONSERVATION		96.5		2.85		25.18		25.18		1950	
	g. INACTIVE											
WATERSHED	17. LENGTH OF RESERVOIR <u>0.127</u> MILES				AV. WIDTH OF RESERVOIR <u>0.035</u> MILES							
	18. TOTAL DRAINAGE AREA <u>0.166</u> SQ. MI.				22. MEAN ANNUAL PRECIPITATION <u>40 (50 yr)</u> INCHES							
	19. NET SEDIMENT CONTRIBUTING AREA <u>0.161</u> SQ. MI.				23. MEAN ANNUAL RUNOFF <u>15 (50 yr)</u> INCHES							
	20. LENGTH <u>0.60</u> MILES		AV. WIDTH <u>0.28</u> MILES		24. MEAN ANNUAL RUNOFF <u>133 (50 yr)</u> AC.-FT.							
	21. MAX. ELEV. <u>260**</u>		MIN. ELEV. <u>75**</u>		25. ANNUAL TEMP: MEAN <u>57</u> RANGE <u>44-74</u>							
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.			
	8-50 <sup>1</sup> / <sub>1</sub>		-	-	-	-	2.85 <sup>2</sup> / <sub>1</sub>	25.18	0.189			
	8-1-67		17	17	Range "D"	6	2.79	24.24	0.182			
	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			
	8-1-67		42(17 yr)		151 <sup>3</sup> / <sub>1</sub>	151 <sup>3</sup> / <sub>1</sub>	2567 <sup>3</sup> / <sub>1</sub>	151	2567			
	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				
	8-1-67		0.94	0.06	0.37	0.94	0.06	0.37				
	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. ANN.	b. TOT. TO DATE	a. PERIOD	b. TOT. TO DATE				
8-1-67		59 (2)	475	475	0.24	3.73	373	373				

\*Assumed datum

\*\*Assumed datum - for MSL elevations add 140 feet.

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

1/ Original capacity determined by the 1967 survey.  
 2/ Very little delta development, therefore, original area slightly larger.  
 3/ Assuming Potential Evaptranspiration (PET) remains the same for the 17-yr.period.

Geology: Plio-Pleistocene non-marine sediments - equivalent to upper part of Sonoma Volcanics. Pumice tuff most common in watershed with some conglomerate and sandstone. Much of sediment in reservoir is light and tuffaceous.

Watershed Land Use: Range 100%.

48. AGENCY MAKING SURVEY USDA - Soil Conservation Service, State Office, Berkeley, Calif.  
 49. AGENCY SUPPLYING DATA same  
 50. DATE August 1968