

**RESERVOIR SEDIMENT  
DATA SUMMARY**

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

SCS-34 Rev. 6-66

M.S. Wilson  
NAME OF RESERVOIR

72-31

DATA SHEET NO.

DAM	1. OWNER <b>M.S. Wilson</b>			2. STREAM <b>Bourns Gulch</b>			3. STATE <b>California</b>					
	4. SEC. <b>20-21TWP. 11N</b> RANGE <b>15W</b>			5. NEAREST P.O. <b>Gualala</b>			6. COUNTY <b>Mendocino</b>					
	7. LAT. <b>38° 47' N</b> " LONG. <b>123° 33' W</b> "			8. TOP OF DAM ELEVATION <b>99*</b>			9. SPILLWAY CREST ELEV. <b>96.1*</b>					
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										1952	
	b. MULTIPLE USE											
	c. POWER											
	d. WATER SUPPLY										16. DATE NORMAL OPER. BEGAN	
	e. IRRIGATION		<b>96.1*</b>		<b>1.53</b>		<b>14.06</b>		<b>14.06</b>		1952	
	f. CONSERVATION											
g. INACTIVE												
WATERSHED	17. LENGTH OF RESERVOIR <b>0.078</b> MILES				AV. WIDTH OF RESERVOIR <b>0.031</b> MILES							
	18. TOTAL DRAINAGE AREA <b>0.285</b> SQ. MI.				22. MEAN ANNUAL PRECIPITATION <b>47 (50 yr.)</b> 1/ INCHES							
	19. NET SEDIMENT CONTRIBUTING AREA <b>0.283</b> SQ. MI.				23. MEAN ANNUAL RUNOFF <b>23 (50 yr.)</b> 1/ INCHES							
	20. LENGTH <b>1.2</b> MILES		AV. WIDTH <b>0.27</b> MILES		24. MEAN ANNUAL RUNOFF <b>350</b> AC.-FT.							
	21. MAX. ELEV. <b>880*</b>		MIN. ELEV. <b>83*</b>		25. ANNUAL TEMP.: MEAN <b>53</b> RANGE <b>45-61</b>							
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.			
	7-522/		0	0	-	-	1.53	14.06	0.040			
	7-12-67		15	15	Range "D"	6	1.53	13.02	0.037			
	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			
	7-12-67		47		350	-	5250	350	5250			
	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				
	7-12-67		1.04	0.069	0.24	1.04	0.069	0.24				
	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					
7-12-67		60**	314	314	0.49	7.40	187	187				

\*Assumed Datum - For MSL elevations, add approximately (+) 80 feet.

\*\*Estimated - Predominantly silt, submerged

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															
<p>1/ California State Department of Water Resources Bull. 142-1, April, 1965.  Runoff interpolated by using Formula by Rantz, 1967, USGS Prof Paper 575-D  p. 281-283 Runoff = <math>1.00P - 0.40(PET) - 9.1</math>.</p> <p>2/ Original capacity from 1967 survey.</p> <p>Land Use in watershed: 95% woodland, 5% range.</p> <p>Geology: Upper Cretaceous marine sediments, mostly greywacke, some shale and conglomerate.</p>															
48. AGENCY MAKING SURVEY USDA, Soil Conservation Service, Calif. State Office, Berkeley															
49. AGENCY SUPPLYING DATA same															
50. DATE August 1968															