

RESERVOIR SEDIMENT  
DATA SUMMARY

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

SCS-34 Rev. 6-66

Highland Creek Dam  
NAME OF RESERVOIR

72-33  
DATA SHEET NO.

DAM	1. OWNER <u>Lake County</u>			2. STREAM <u>Highland Creek</u>			3. STATE <u>California</u>											
	4. SEC. <u>30</u> TWP. <u>13N</u> RANGE <u>9W</u>			5. NEAREST P. O. <u>Kelseyville</u>			6. COUNTY <u>Lake</u>											
	7. LAT. <u>38° 56' 40"</u> LONG. <u>122° 54' 20"</u>			8. TOP OF DAM ELEVATION <u>1497.0</u>			9. SPILLWAY CREST ELEV. <u>1485.0</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		<u>1485</u>		<u>137.7</u>		<u>2285.39</u>		<u>3234.66</u>		<u>12/1/61</u>							
	b. MULTIPLE USE																	
	c. POWER																	
	d. WATER SUPPLY										<u>16. DATE NORMAL OPER. BEGAN</u>							
	e. IRRIGATION																	
	f. CONSERVATION		<u>1462.5</u>		<u>64.62</u>		<u>949.27</u>		<u>949.27</u>									
	g. INACTIVE										<u>6/1/62</u>							
17. LENGTH OF RESERVOIR					<u>.90</u> MILES		AV. WIDTH OF RESERVOIR					<u>0.239</u> MILES						
18. TOTAL DRAINAGE AREA					<u>13.6</u> SQ. MI.		22. MEAN ANNUAL PRECIPITATION					<u>35</u> INCHES						
					19. NET SEDIMENT CONTRIBUTING AREA							<u>13.4</u> SQ. MI.		23. MEAN ANNUAL RUNOFF				
20. LENGTH			<u>3.3</u> MILES							AV. WIDTH			<u>4.1</u> MILES					
21. MAX. ELEV.			<u>2550</u>		MIN. ELEV.			<u>1500</u>		25. ANNUAL TEMP.: MEAN					<u>60</u> RANGE		<u>34-87</u>	
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	
<u>Dec. 1965</u>		<u>--</u>		<u>--</u>		<u>Range</u>		<u>31</u>		<u>137.7</u> (64.6)		<u>3234.7</u> (949.3)		<u>0.223</u> (0.065)				
<u>April 1972</u>		<u>6.3</u>		<u>6.3</u>		<u>Range</u>		<u>31</u>		<u>137.8</u> (62.8)		<u>3198.9</u> (921.0)		<u>0.221</u> (0.063)				
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						
<u>April 1972</u>		<u>35.8</u> (28.3)		<u>5.68</u> (4.49)		<u>.42</u> (.33)		<u>35.8</u> (28.3)		<u>5.68</u> (4.49)		<u>.42</u> (.33)						
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								
<u>April 1972</u>		<u>70</u> (59) <u>2/</u>		<u>640 1/</u> (424) <u>2/</u>		<u>640 1/</u> (424) <u>2/</u>		<u>.18</u> (.47)		<u>1.11</u> (2.98)								

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET BELOW, AND ABOVE, CREST ELEVATION														
	60-49	49-41	41-33	33-26	26-19	19-crest									
	PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION														
April 1972	3.8	15.3	27.6	27.1	26.2	0									
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>Note: Numbers in parenthesis pertain to sediment pool only.</p> <p>1/ Estimated average dry weight of total sediment deposits.</p> <p>2/ Average dry weight of sediment pool deposits as determined from 4 samples.</p>															
48. AGENCY MAKING SURVEY    ARS															
49. AGENCY SUPPLYING DATA    SCS				50. DATE <u>August 1972</u>											