

RESERVOIR SEDIMENTATION
DATA SUMMARY

Upper Walter Keller Pond
NAME OF RESERVOIR

71-25
DATA SHEET NO.

| | | | | | | | | | |
|-----------------------------------|--|---|------------------------------------|---|---|--------------------------------|-----------------------------|-----------------------------------|--|
| DAM | 1. OWNER Walter Keller | | | 2. RIVER Marsh Creek | | | 3. STATE California | | |
| | 4. SEC. 33 TWP. 1N RANGE 34E | | | 5. NEAREST TOWN Near Brentwood | | | 6. COUNTY Contra Costa | | |
| | 7. STREAM BED ELEV. | | | 8. TOP OF DAM ELEV. | | | 9. SPILLWAY CREST ELEV. | | |
| RESERVOIR | 10. STORAGE ALLOCATION | 11. ELEVATION TOP OF POOL | 12. SURFACE AREA ACRES | | 13. STORAGE ACRE- FEET | 14. ACCUMULATED ACRE- FEET | 15. DATE STORAGE BEGAN | | |
| | a. FLOOD CONTROL | | | | | | 1943 | | |
| | b. POWER | | | | | | | | |
| | c. WATER SUPPLY | | 0.32 | | 1.340 | 1.347 | 16. DATE NORMAL OPER. BEGAN | | |
| | d. IRRIGATION | | | | | | | | |
| | e. CONSERVATION | | | | | | | | |
| | f. INACTIVE | | | | | | 1943 | | |
| 17. LENGTH OF RESERVOIR .03 MILES | | | AV. WIDTH OF RESERVOIR .015 MILES | | | | | | |
| WATERSHED | 18. TOTAL DRAINAGE AREA 0.027 SQ. MI. | | | 22. MEAN ANNUAL PRECIPITATION 19 INCHES | | | | | |
| | 19. NET SEDIMENT CONTRIBUTING AREA 0.027 SQ. MI. | | | 23. MEAN ANNUAL RUNOFF INCHES | | | | | |
| | 20. LENGTH MILES | | AV. WIDTH MILES | | 24. MEAN ANNUAL RUNOFF AC.-FT. | | | | |
| | 21. MAX. ELEV. | | MIN. ELEV. | | 25. CLIMATIC CLASSIFICATION Semi-arid | | | | |
| | | | | | | | | | |
| 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. | |
| | 1943 | - | - | - | - | 0.32 | 1.347 | 49.9 | |
| | 10/22/52 | 9 | 9 | Range Detailed | 4 | 0.32 | 1.185 | 43.88 | |
| | 26. DATE OF SURVEY | 34. PERIOD ANNUAL PRECIPITATION | 35. PERIOD WATER INFLOW ACRE- FEET | | | 36. WATER INFL. TO DATE AG-FT. | | | |
| | | a. MEAN ANNUAL | b. MAX. ANNUAL | c. PERIOD TOTAL | a. MEAN ANNUAL | b. TOTAL TO DATE | | | |
| | | | | | | | | | |
| | 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 | | |
| | 10/22/52 | 0.162 | 0.018 | 0.682 1/ | 0.162 | 0.018 | 0.682 1/ | | |
| | 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. ANNUAL | b. TOT. TO DATE | a. PERIOD | b. TOT. TO DATE | | |
| 10/22/52 | 40* | 594 | 594 | 1.34 | 12.03 | - | - | | |

*Estimated

| | | | | | | | | | | | | | | |
|-----------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 26. DATE OF SURVEY | 43. DEPTH DESIGNATION RANGE IN FEET ABOVE, AND BELOW, CREST ELEVATION | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION | | | | | | | | | | | | | |
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| 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 | | | | | | | | | | | | | | |
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| 45. RANGE IN RESERVOIR OPERATION | | | | | | | |
| WATER YEAR | MAX. ELEV. | MIN. ELEV. | INFLOW AC.-FT. | WATER YEAR | MAX. ELEV. | MIN. ELEV. | INFLOW AC.-FT. |
| | | | | | | | |

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| 46. ELEVATION-AREA-CAPACITY DATA | | | | | | | | |
| ELEVATION | AREA | CAPACITY | ELEVATION | AREA | CAPACITY | ELEVATION | AREA | CAPACITY |
| | | | | | | | | |

47. REMARKS AND REFERENCES

1/ Excluding area of pond.

Ref: Marsh Creek and Kellogg Creek Watershed Program, 1954, unpublished.

48. AGENCY SUPPLYING DATA SCS, Portland, Oregon 49. DATE Nov. 15, 1954