

RESERVOIR SEDIMENTATION

Pardee

71-15

DATA SUMMARY Utility Dist.

NAME OF RESERVOIR

DATA SHEET NO.

| | | | | | | | | | |
|---------------------|---|---|-------------------------------------|--|---|---------------------------------|-------------------------|--|--|
| DAM | 1. OWNER East Bay Municipal/ | | 2. RIVER Mokelumne River | | 3. STATE California | | | | |
| | 4. SEC. 26 TWP. 5 N RANGE 10 E | | 5. NEAREST TOWN Lodi | | 6. COUNTY Amador & Calaveras | | | | |
| | 7. STREAM BED ELEV. 225.0 | | 8. TOP OF DAM ELEV. 575.0 | | 9. SPILLWAY CREST ELEV. 567.5 | | | | |
| 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 | | | | | 1929 | | | |
| | b. POWER | | | | | | | | |
| | c. WATER SUPPLY | 567.5 | 2,250 | 210,000 | 210,000 | 16. DATE NORMAL OPER. BEGAN | | | |
| | d. IRRIGATION | | | | | | | | |
| | e. CONSERVATION | | | | | | | | |
| f. INACTIVE | | | | | | | | | |
| WATERSHED | 17. LENGTH OF RESERVOIR | | MILES | AV. WIDTH OF RESERVOIR | | MILES | | | |
| | 18. TOTAL DRAINAGE AREA 387 1/2 | | SQ. MI. | 22. MEAN ANNUAL PRECIPITATION 23-60 | | INCHES | | | |
| | 19. NET SEDIMENT CONTRIBUTING AREA 383.5 | | SQ. MI. | 23. MEAN ANNUAL RUNOFF | | INCHES | | | |
| | 20. LENGTH | | MILES | AV. WIDTH | | MILES | | | |
| | 21. MAX. ELEV. 10,000 + | | MIN. ELEV. 225 | | 25. CLIMATIC CLASSIFICATION Sub-humid to 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. | |
| | 1929 | - | - | - | - | 2,250 | 210,000 | 543 | |
| | Aug. 5, 1943 | 14.0 | 14.0 | Range Detailed | 26 | 2,250 | 209,183 | 541 | |
| | 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 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 | | |
| | Aug. 5, 1943 | 817 | 58.4 | 0.152 | 817 | 58.4 | 0.152 | | |
| | 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 | | | |
| Aug. 5, 1943 | 62 * | 205 | 205 | 0.03 | 0.39 | | | | |

* Assumed

| | | | | | | | | | | | | | |
|-----------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|
| 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 | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

| 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/ Excluding non-contributing areas above Salt Springs and Bear River Reservoirs.
 Brown, C. B., and Thorp, E. M. Reservoir sedimentation in the Sacramento-San Joaquin Drainage Basins, California. U. S. Soil Conserv. Serv., Spec. Rpt. 10, 69 pp., illus., processed. Washington, D. C., July 1947.
 Region 7, Soil Conservation Service
 U. S. Department of Agriculture
 48. AGENCY SUPPLYING DATA Portland, Oregon 49. DATE February 26, 1951