

RESERVOIR SEDIMENTATION  
DATA SUMMARY

Prado Reservoir

70 - 16

NAME OF RESERVOIR

DATA SHEET NO.

|                         |                                    |   |                                    |                         |   |                                 |                             |                                   |         |         |
|-------------------------|------------------------------------|---|------------------------------------|-------------------------|---|---------------------------------|-----------------------------|-----------------------------------|---------|---------|
| DAM                     | 1. OWNER U. S. Corps of Engineers  |   |                                    | 2. RIVER Santa Ana      |   |                                 | 3. STATE California         |                                   |         |         |
|                         | 4. SEC. 20 TWP. 3S RANGE 7W        |   |                                    | 5. NEAREST TOWN Corona  |   |                                 | 6. COUNTY Riverside         |                                   |         |         |
|                         | 7. STREAM BED ELEV. 460            |   |                                    | 8. TOP OF DAM ELEV. 566 |   |                                 | 9. SPILLWAY CREST ELEV. 533 |                                   |         |         |
| 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                   | 533                                     | 8,850                              | 223,000                 | 223,000                                     | 1940                            |                             |                                   |         |         |
|                         | b. POWER                           |   |                                    |                         |   |                                 |                             |                                   |         |         |
|                         | c. WATER SUPPLY                    |   |                                    |                         |   |                                 |                             |                                   |         |         |
|                         | d. IRRIGATION                      |   |                                    |                         |   | 16. DATE NORMAL OPER. BEGAN     |                             |                                   |         |         |
|                         | e. CONSERVATION                    |   |                                    |                         |   |                                 |                             |                                   |         |         |
|                         | f. INACTIVE                        |   |                                    |                         |   |                                 |                             |                                   |         |         |
| 17. LENGTH OF RESERVOIR |                                    |   | MILES                              | AV. WIDTH OF RESERVOIR  |   |                                 | MILES                       |                                   |         |         |
| WATERSHED               | 18. TOTAL DRAINAGE AREA            |   |                                    | 2,264                   | SQ. MI.                                     | 22. MEAN ANNUAL PRECIPITATION   |                             |                                   | 14 - 40 | INCHES  |
|                         | 19. NET SEDIMENT CONTRIBUTING AREA |   |                                    | 2,250                   | SQ. MI.                                     | 23. MEAN ANNUAL RUNOFF          |                             |                                   |         | INCHES  |
|                         | 20. LENGTH                         |   | MILES                              | AV. WIDTH               |   | MILES                           | 24. MEAN ANNUAL RUNOFF      |                                   | 75,690  | AC.-FT. |
|                         | 21. MAX. ELEV.                     |   | MIN. ELEV.                         |                         |   | 25. CLIMATIC CLASSIFICATION     |                             |                                   |         |         |
|                         |                                    |   |                                    |                         |   | Sub-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. |         |         |
|                         | 1940                               | -                                       | -                                  | -                       | -   | 8,850                           | 223,000                     | 98.5                              |         |         |
|                         | May 22-28, 1941                    | 1                                       | 1                                  | Range recon.            | 14  | 8,850                           | 222,481                     | 98.3                              |         |         |
|                         | 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            |                                   |         |         |
|                         | May 1941                           |   |                                    |                         | 97,000                                      |                                 |                             |                                   |         |         |
|                         | 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         |                                   |         |         |
|                         | May 1941                           | 519                                     | 519                                | 0.231                   | 519   | 519                             | 0.231                       |                                   |         |         |
|                         | 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             |                                   |         |         |
| May 1941                | 75 *                               | 377                                     | 377                                | 0.23                    | 0.23  |                                 |                             |                                   |         |         |

\* Assumed

|                       |   |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-----------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 26.<br>DATE OF SURVEY | 43. DEPTH DESIGNATION RANGE IN FEET ABOVE, AND BELOW, CREST ELEVATION |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |   |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       | PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION            |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |   |  |  |  |  |  |  |  |  |  |  |  |  |  |

|                       |   |       |       |       |       |       |       |       |       |        |      |      |      |      |      |
|-----------------------|---|-------|-------|-------|-------|-------|-------|-------|-------|--------|------|------|------|------|------|
| 26.<br>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

Region 7, Soil Conservation Service  
U. S. Dept. of Agriculture  
Portland, Oregon

48. AGENCY SUPPLYING DATA

49. DATE August 29, 1950

RESERVOIR SEDIMENTATION  
DATA SUMMARY

PRADO FLOOD CONTROL BASIN

70-16a

NAME OF RESERVOIR

DATA SHEET NO.

|  |   |                                 |  |  |   |   |   |                  |                                   |                |                        |                  |                        |             |                                  |
|--|---|---------------------------------|--|--|---|---|---|------------------|-----------------------------------|----------------|------------------------|------------------|------------------------|-------------|----------------------------------|
| DAM                                      | 1. OWNER <b>C of E</b>                                  |                                 |  | 2. RIVER <b>Santa Ana River</b>            |   |   | 3. STATE <b>California</b>                |                  |                                   |                |                        |                  |                        |             |                                  |
|  | 4. SEC. <b>20</b> TWP. <b>3 S</b> RANGE <b>7 W</b>      |                                 |  | 5. NEAREST TOWN <b>Corona</b>              |   |   | 6. COUNTY <b>Riverside</b>                |                  |                                   |                |                        |                  |                        |             |                                  |
|  | 7. STREAM BED ELEV. <b>460</b>                          |                                 |  | 8. TOP OF DAM ELEV. <b>566</b>             |   |   | 9. SPILLWAY CREST ELEV. <b>543</b>        |                  |                                   |                |                        |                  |                        |             |                                  |
| 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  |                                 | <b>543</b>                                 |  | <b>6,710</b>  |   | <b>223,000</b>                            |                  | <b>223,000</b>                    |                | <b>1940</b>            |                  |                        |             |                                  |
|  | b. POWER  |                                 |  |  |   |   |   |                  |                                   |                |                        |                  |                        |             |                                  |
|  | c. WATER SUPPLY   |                                 |  |  |   |   |   |                  |                                   |                |                        |                  |                        |             |                                  |
|  | d. IRRIGATION   |                                 |  |  |   |   |   |                  |                                   |                | <b>1941</b>            |                  |                        |             |                                  |
|  | e. CONSERVATION   |                                 |  |  |   |   |   |                  |                                   |                |                        |                  |                        |             |                                  |
|  | f. INACTIVE   |                                 |  |  |   |   |   |                  |                                   |                |                        |                  |                        |             |                                  |
| 17. LENGTH OF RESERVOIR <b>5.5</b> MILES |   |                                 |  |  |   | AV. WIDTH OF RESERVOIR <b>6.6</b> MILES |   |                  |                                   |                |                        |                  |                        |             |                                  |
| WATERSHED                                | 18. TOTAL DRAINAGE AREA <b>2,258</b> SQ. MI.            |                                 |  |  | 22. MEAN ANNUAL PRECIPITATION <b>18.98 (80 yr)</b> INCHES |   |   |                  |                                   |                |                        |                  |                        |             |                                  |
|  | 19. NET SEDIMENT CONTRIBUTING AREA <b>1,435</b> SQ. MI. |                                 |  |  | 23. MEAN ANNUAL RUNOFF <b>1.60</b> INCHES                 |   |   |                  |                                   |                |                        |                  |                        |             |                                  |
|  | 20. LENGTH <b>55</b> MILES AV. WIDTH <b>79</b> MILES    |                                 |  |  | 24. MEAN ANNUAL RUNOFF <b>75,470 (19)</b> AC.-FT.         |   |   |                  |                                   |                |                        |                  |                        |             |                                  |
|  | 21. MAX. ELEV. <b>11,485</b> MIN. ELEV. <b>460</b>      |                                 |  |  | 25. CLIMATIC CLASSIFICATION <b>Subhumid</b>               |   |   |                  |                                   |                |                        |                  |                        |             |                                  |
|  | 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. |
| <b>1940</b>                              |   |                                 |  |  |   | <b>Range recon. Range lines.</b>        |   | <b>14</b>        |                                   | <b>6,710</b>   |                        | <b>223,000</b>   |                        | <b>98.8</b> |                                  |
| <b>May 1941</b>                          |   | <b>1</b>                        |  | <b>1</b>                                   |   |   |   |                  |                                   |                |                        |                  |                        |             |                                  |
| <b>Aug 1960</b>                          |   | <b>19.2</b>                     |  | <b>20.2</b>                                |   |   |   |                  |                                   |                |                        |                  |                        |             |                                  |
| 26. DATE OF SURVEY                       |   | 27. PERIOD ANNUAL PRECIPITATION |  | 35. <b>1</b> 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 |                        |             |                                  |
| <b>May 1941</b>                          |   | <b>29.69</b>                    |  | <b>155,690</b>                             |   | <b>155,690</b>                          |   | <b>155,690</b>   |                                   | <b>155,690</b> |                        | <b>155,690</b>   |                        |             |                                  |
| <b>Aug 1960</b>                          |   | <b>15.52</b>                    |  | <b>69,000</b>                              |   | <b>144,700</b>                          |   | <b>1,324,900</b> |                                   | <b>73,300</b>  |                        | <b>1,480,590</b> |                        |             |                                  |
| SURVEY DATA                              | 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.-YR.                        |                  | a. TOTAL TO DATE                  |                | b. AV. ANNUAL          |                  | c. PER SQ. MI.-YR.     |             |                                  |
|  | <b>May 1941</b>   |                                 | <b>519</b>                                 |  | <b>519</b>  |   | <b>0.231</b>                              |                  | <b>519</b>                        |                | <b>519</b>             |                  | <b>0.231</b>           |             |                                  |
|  | <b>Aug 1960</b>   |                                 | <b>5,481</b>                               |  | <b>285</b>  |   | <b>0.199</b>                              |                  | <b>6,000</b>                      |                | <b>297</b>             |                  | <b>0.201</b>           |             |                                  |
|  | 26. DATE OF SURVEY                                      |                                 | 35. <b>2</b> 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. TO DATE     |                        | a. PERIOD        |                        | b. TO DATE  |                                  |
| <b>May 1941</b>                          |   | <b>75</b>                       |  | <b>377</b>                                 |   | <b>377</b>                              |   | <b>0.23</b>      |                                   | <b>0.23</b>    |                        |                  |                        |             |                                  |
| <b>Aug 1960</b>                          |   |                                 |  |  |   |   |   | <b>0.13</b>      |                                   | <b>2.69</b>    |                        |                  |                        |             |                                  |

|                       |   |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-----------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 26.<br>DATE OF SURVEY | 43. DEPTH DESIGNATION RANGE IN FEET ABOVE, AND BELOW, CREST ELEVATION |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       | PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION            |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                       |   |  |  |  |  |  |  |  |  |  |  |  |  |  |

|                       |   |       |       |       |       |       |       |       |       |        |      |      |      |      |      |
|-----------------------|---|-------|-------|-------|-------|-------|-------|-------|-------|--------|------|------|------|------|------|
| 26.<br>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. |
| 1940-41                          | 485.14     | 461.55     | 174,350        | 1949-50    | 471.37     | 461.29     | 49,302         |
| 1941-42                          | 469.42     | 462.00     | 77,920         | 1950-51    | 464.88     | 461.70     | 41,873         |
| 1942-43                          | 494.95     | 461.96     | 144,700        | 1951-52    | 487.94     | 462.27     | 104,063        |
| 1943-44                          | 486.35     | 461.02     | 109,700        | 1952-53    | 470.25     | 462.28     | 44,500         |
| 1944-45                          | 479.48     | 461.01     | 102,200        | 1953-54    | 478.66     | 462.22     | 52,252         |
| 1945-46                          | 485.45     | 461.03     | 86,900         | 1954-55    | 473.21     | 463.69     | 43,938         |
| 1946-47                          | 477.33     | 461.23     | 84,200         | 1955-56    | 485.37     | 462.47     | 50,750         |
| 1947-48                          | 469.27     | 461.43     | 59,110         | 1956-57    | 472.84     | 461.60     | 43,020         |
| 1948-49                          | 468.03     | 461.47     | 52,230         | 1957-58    | 485.97     | 461.72     | 76,160         |
|                                  |            |            |                | 1958-59    | 471.17     | 461.43     | 35,780         |

| 46. ELEVATION-AREA-CAPACITY DATA (Aug 1960) |       |          |           |       |          |           |       |          |
|---|-------|----------|-----------|-------|----------|-----------|-------|----------|
| ELEVATION                                   | AREA  | CAPACITY | ELEVATION | AREA  | CAPACITY | ELEVATION | AREA  | CAPACITY |
| 460   | 0     | 0        | 500       | 2,410 | 28,960   | 540       | 6,030 | 197,900  |
| 465   | 4     | 16       | 505       | 3,000 | 42,530   | 545       | 6,950 | 230,500  |
| 470   | 20    | 60       | 510       | 3,360 | 58,440   | 550       | 7,460 | 266,500  |
| 475   | 100   | 356      | 515       | 3,820 | 76,410   | 555       | 8,170 | 305,700  |
| 480   | 406   | 1,600    | 520       | 4,040 | 96,030   |           |       |          |
| 485   | 883   | 4,520    | 525       | 4,650 | 117,900  |           |       |          |
| 490   | 1,790 | 9,930    | 530       | 4,840 | 141,600  |           |       |          |
| 495   | 1,930 | 18,080   | 535       | 5,740 | 162,800  |           |       |          |

47. REMARKS AND REFERENCES

1/ Item 35 - SCS values revised.  
2/ Item 39 - Value assumed by SCS.

RESERVOIR SEDIMENT  
DATA SUMMARY

DEPARTMENT OF THE ARMY  
CORPS OF ENGINEERS

Prado Flood Control Reservoir (Revised)

NAME OF RESERVOIR

70-16b

DATA SHEET NO.

|  |   |  |                                     |                                    |  |  |                                    |                                  |                              |                  |                            |  |                                     |  |
|--|---|--|-------------------------------------|------------------------------------|--|--|------------------------------------|----------------------------------|------------------------------|------------------|----------------------------|--|-------------------------------------|--|
| DAM                                      | 1. OWNER <b>U.S. Army, C of E</b>                       |  |                                     | 2. STREAM <b>Santa Ana River</b>   |  |  | 3. STATE <b>California</b>         |                                  |                              |                  |                            |  |                                     |  |
|  | 4. SEC. <b>20</b> TWP. <b>3S</b> RANGE <b>7W</b>        |  |                                     | 5. NEAREST P.O. <b>Corona 4.5W</b> |  |  | 6. COUNTY <b>Riverside</b>         |                                  |                              |                  |                            |  |                                     |  |
|  | 7. LAT <b>11° 38' 38" LONG. 33° 53' 26"</b>             |  |                                     | 8. TOP OF DAM ELEVATION <b>566</b> |  |  | 9. SPILLWAY CREST ELEV. <b>543</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  |  | <b>543</b>                          |                                    | <b>6670</b>  |  | <b>222,840</b>                     |                                  | <b>222,840</b>               |                  | <b>18 March 1940</b>       |  |                                     |  |
|  | b. MULTIPLE USE   |  |                                     |                                    |  |  |                                    |                                  |                              |                  |                            |  |                                     |  |
|  | c. POWER  |  |                                     |                                    |  |  |                                    |                                  |                              |                  |                            |  |                                     |  |
|  | d. WATER SUPPLY   |  |                                     |                                    |  |  |                                    |                                  |                              |                  |                            |  |                                     |  |
|  | e. IRRIGATION   |  |                                     |                                    |  |  |                                    |                                  |                              |                  | <b>18 March 1940</b>       |  |                                     |  |
|  | f. CONSERVATION   |  |                                     |                                    |  |  |                                    |                                  |                              |                  |                            |  |                                     |  |
|  | g. INACTIVE   |  |                                     |                                    |  |  |                                    |                                  |                              |                  |                            |  |                                     |  |
| 17. LENGTH OF RESERVOIR <b>5.5</b> MILES |   |  |                                     |                                    | AV. WIDTH OF RESERVOIR <b>1.85</b> MILES                   |  |                                    |                                  |                              |                  |                            |  |                                     |  |
| WATERSHED                                | 18. TOTAL DRAINAGE AREA <b>2,233</b> SQ. MI.            |  |                                     |                                    | 22. MEAN ANNUAL PRECIPITATION <b>13"-37" (20yr)</b> INCHES |  |                                    |                                  |                              |                  |                            |  |                                     |  |
|  | 19. NET SEDIMENT CONTRIBUTING AREA <b>1,131</b> SQ. MI. |  |                                     |                                    | 23. MEAN ANNUAL RUNOFF <b>0.72</b> INCHES                  |  |                                    |                                  |                              |                  |                            |  |                                     |  |
|  | 20. LENGTH <b>55</b> MILES                              |  | AV. WIDTH <b>40.6</b> MILES         |                                    | 24. MEAN ANNUAL RUNOFF <b>85,740 (20yr)</b> AC.-FT.        |  |                                    |                                  |                              |                  |                            |  |                                     |  |
|  | 21. MAX. ELEV. <b>11,485</b>                            |  | MIN. ELEV. <b>460</b>               |                                    | 25. ANNUAL TEMP MEAN <b>62.4°</b> RANGE <b>29.6°</b> F     |  |                                    |                                  |                              |                  |                            |  |                                     |  |
| 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. |  |
|  | <b>2/ Sep 1941<br/>Aug 1960</b>                         |  | <b>18.9</b>                         | <b>18.9</b>                        | <b>Contour (D)<br/>Range (D)</b>                           |  | <b>5' (CI)<br/>36 (R)</b>          |                                  | <b>6670<br/>6510</b>         |                  | <b>222,840<br/>216,960</b> |  | <b>2.60<br/>2.53</b>                |  |
|  | 26. DATE OF SURVEY                                      |  | 34. PERIOD ANNUAL PRECIPITATION     |                                    | 35. PERIOD WATER INFLOW, ACRE-FEET                         |  |                                    | 36. WATER INFL. TO DATE, AC.-FT. |                              |                  |                            |  |                                     |  |
|  | <b>Aug 1960</b>   |  | <b>13"-37"</b>                      |                                    | a. MEAN ANNUAL   | b. MAX. ANNUAL                             | c. PERIOD TOTAL                    |                                  | a. MEAN ANNUAL               | b. TOTAL TO DATE |                            |  |                                     |  |
|  | <b>Aug 1960</b>   |  | <b>13"-37"</b>                      |                                    | <b>81,423</b>  | <b>144,700</b>                             | <b>1,538,890</b>                   |                                  | <b>81,423</b>                | <b>1,538,890</b> |                            |  |                                     |  |
|  | 26. DATE OF SURVEY                                      |  | 37. PERIOD CAPACITY LOSS, ACRE-FEET |                                    |  | 38. TOTAL SED. DEPOSITS TO DATE, ACRE-FEET |                                    |                                  |                              |                  |                            |  |                                     |  |
|  | <b>Aug 1960</b>   |  | a. PERIOD TOTAL                     | b. AV. ANNUAL                      | c. PER SQ. MI.-YEAR  | a. TOTAL TO DATE                           | b. AV. ANNUAL                      | c. PER SQ. MI.-YEAR              |                              |                  |                            |  |                                     |  |
|  | <b>Aug 1960</b>   |  | <b>5,880</b>                        | <b>311</b>                         | <b>.275</b>  | <b>5,880<br/>3/8,470</b>                   | <b>311<br/>448</b>                 | <b>.275<br/>.396</b>             |                              |                  |                            |  |                                     |  |
|  | 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         |                  |                            |  |                                     |  |
|  | <b>Aug 1960</b>   |  |                                     |                                    | a. PERIOD  | b. TOTAL TO DATE                           | a. AV. ANN.                        | b. TOT. TO DATE                  | a. PERIOD                    | b. TOT. TO DATE  |                            |  |                                     |  |
| <b>Aug 1960</b>                          |   |  |                                     |                                    |  | <b>0.140</b>                               | <b>2.64</b>                        |                                  |                              |                  |                            |  |                                     |  |

|  |   |            |  |            |            |                              |                 |          |       |        |         |      |      |      |
|--|---|------------|--|------------|------------|------------------------------|-----------------|----------|-------|--------|---------|------|------|------|
| 26. DATE OF SURVEY   | 43. DEPTH DESIGNATION RANGE IN FEET BELOW, AND ABOVE, CREST ELEVATION |            |  |            |            |                              |                 |          |       |        |         |      |      |      |
|  | 83-70   | 70-60      | 60-50  | 50-40      | 40-30      | 30-20                        | 20-10           | 10-Crest | Crest | +10    | +10-+20 |      |      |      |
| Aug 1960   | PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION            |            |  |            |            |                              |                 |          |       |        |         |      |      |      |
|  | 6   | 14         | 12   | 7          | -2         | 8                            | 10              | 15       | 24    | 6      |         |      |      |      |
| 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 |
|  | 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. |          |       |        |         |      |      |      |
| 1940-41  | 485.14  | 461.55     | 174,350  | 1952-53    | 470.25     | 462.28                       | 44,500          |          |       |        |         |      |      |      |
| 1941-42  | 469.42  | 462.00     | 77,920   | 1953-54    | 478.66     | 462.22                       | 52,252          |          |       |        |         |      |      |      |
| 1942-43  | 494.95  | 461.96     | 144,700  | 1954-55    | 473.21     | 463.69                       | 43,938          |          |       |        |         |      |      |      |
| 1943-44  | 486.35  | 461.02     | 109,700  | 1955-56    | 485.37     | 462.47                       | 50,750          |          |       |        |         |      |      |      |
| 1944-45  | 479.48  | 461.01     | 102,200  | 1956-57    | 472.84     | 461.60                       | 43,020          |          |       |        |         |      |      |      |
| 1945-46  | 485.45  | 461.03     | 86,900   | 1957-58    | 485.97     | 461.72                       | 76,160          |          |       |        |         |      |      |      |
| 1946-47  | 477.33  | 461.23     | 84,200   | 1958-59    | 471.17     | 461.43                       | 35,780          |          |       |        |         |      |      |      |
| 1947-48  | 469.27  | 461.43     | 59,110   | 1959-60    | 468.50     | 460.90                       | 32,830          |          |       |        |         |      |      |      |
| 1948-49  | 468.03  | 461.47     | 52,230   |            |            |                              |                 |          |       |        |         |      |      |      |
| 1949-50  | 471.37  | 461.29     | 49,302   |            |            |                              |                 |          |       |        |         |      |      |      |
| 1950-51  | 464.88  | 461.70     | 41,873   |            |            |                              |                 |          |       |        |         |      |      |      |
| 1951-52  | 487.94  | 462.27     | 104,063  |            |            |                              |                 |          |       |        |         |      |      |      |
| 46. ELEVATION-AREA-CAPACITY DATA   |   |            |  |            |            |                              |                 |          |       |        |         |      |      |      |
| ELEVATION  | AREA  | CAPACITY   | ELEVATION                                      | AREA       | CAPACITY   | ELEVATION                    | AREA            | CAPACITY |       |        |         |      |      |      |
| 460  | 0   | 0          | 500  | 2,410      | 28,960     | 540                          | 6,030           | 197,900  |       |        |         |      |      |      |
| 465  | 4   | 16         | 505  | 3,000      | 42,530     | 545                          | 6,950           | 230,500  |       |        |         |      |      |      |
| 470  | 20  | 60         | 510  | 3,360      | 58,440     | 550                          | 7,460           | 266,500  |       |        |         |      |      |      |
| 475  | 100   | 356        | 515  | 3,820      | 76,410     | 4/555                        | 8,170           | 305,700  |       |        |         |      |      |      |
| 480  | 406   | 1,600      | 520  | 4,040      | 96,030     |                              |                 |          |       |        |         |      |      |      |
| 485  | 883   | 4,520      | 525  | 4,650      | 117,900    |                              |                 |          |       |        |         |      |      |      |
| 490  | 1,790   | 9,930      | 530  | 4,840      | 141,600    |                              |                 |          |       |        |         |      |      |      |
| 495  | 1,930   | 18,080     | 535  | 5,740      | 162,800    |                              |                 |          |       |        |         |      |      |      |
| 47. REMARKS AND REFERENCES   |   |            |  |            |            |                              |                 |          |       |        |         |      |      |      |
| 1/ Temperature data from Corona, Calif., located 4.5 miles east of Prado Dam.          |   |            |  |            |            |                              |                 |          |       |        |         |      |      |      |
| 2/ Composite of the 1939 and 1941 surveys.   |   |            |  |            |            |                              |                 |          |       |        |         |      |      |      |
| 3/ Amount of sediment deposited includes volume above spillway crest up to elev. 555'. |   |            |  |            |            |                              |                 |          |       |        |         |      |      |      |
| 4/ Survey was taken to elev. 555'.   |   |            |  |            |            |                              |                 |          |       |        |         |      |      |      |
| 48. AGENCY MAKING SURVEY   |   |            | U.S. Army Engr Dist, C of E, Operations Branch |            |            |                              |                 |          |       |        |         |      |      |      |
| 49. AGENCY SUPPLYING DATA  |   |            | U.S. Army Engr Dist, C of E                    |            |            |                              |                 |          |       |        |         |      |      |      |
|  |   |            |  |            |            | 50. DATE <u>October 1967</u> |                 |          |       |        |         |      |      |      |