

**RESERVOIR SEDIMENT
DATA SUMMARY**

DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS

Starfall Debris Basin
NAME OF RESERVOIR

70-127
DATA SHEET NO.

| | | | | | | | | | | | | |
|--|--|------------------------------------|---------------------------------|--|--|-----------------------------------|--|-----------------------------------|------------------------------|-------------------------------------|-----------------------------|--|
| DAM | 1. OWNER <u>LACFCD</u> | | | 2. STREAM <u>Starfall Canyon</u> | | | 3. STATE <u>California</u> | | | | | |
| | 4. SEC. <u>22</u> TWP. <u>2N</u> RANGE <u>13W</u> | | | 5. NEAREST P.O. <u>La Crescenta</u> | | | 6. COUNTY <u>Los Angeles</u> | | | | | |
| | 7. LAT. <u>34° 14' 48"</u> LONG. <u>118° 14' 10"</u> | | | 8. TOP OF DAM ELEVATION <u>2246.5</u> | | | 9. SPILLWAY CREST ELEV. <u>2441.5</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 | | | | | | | | | | Nov 73 | |
| | b. MULTIPLE USE | | | | | | | | | | | |
| | c. POWER | | | | | | | | | | 16. DATE NORMAL OPER. BEGAN | |
| | d. WATER SUPPLY | | | | | | | | | | | |
| | e. IRRIGATION | | | | | | | | | | 73 - 74 | |
| | f. CONSERVATION | | | | | | | | | | | |
| | g. INACTIVE | | | | | | | | | | | |
| 17. LENGTH OF RESERVOIR <u>.06</u> MILES | | | | | AV. WIDTH OF RESERVOIR <u>02.</u> MILES | | | | | | | |
| 18. TOTAL DRAINAGE AREA <u>0.13</u> SQ. MI. | | | | | 22. MEAN ANNUAL PRECIPITATION _____ INCHES | | | | | | | |
| 19. NET SEDIMENT CONTRIBUTING AREA <u>0.13</u> SQ. MI. | | | | | 23. MEAN ANNUAL RUNOFF _____ INCHES | | | | | | | |
| 20. LENGTH <u>.76</u> MILES | | | | | AV. WIDTH <u>.17</u> MILES | | 24. MEAN ANNUAL RUNOFF _____ AC.-FT. | | | | | |
| 21. MAX. ELEV. <u>4320.0</u> | | | | | MIN. ELEV. <u>2430.0</u> | | 25. ANNUAL TEMP. MEAN <u>62.2°</u> RANGE <u>48.8° -75.6°</u> | | | | | |
| WATERSHED | 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, <u>2</u> /ACRE-FEET | | 33. C/I. RATIO, AC.-FT. PER AC.-FT. | | |
| | Sep 75 | | 2 | 2 | | | | | | | | |
| | Sep 77 | | 2 | 4 | | | | | | | | |
| | Sep 78 | | 1 | 5 | | | | | | | | |
| | 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 | | | |
| | Sep 75 | | 25.09 | | No record of inflow. | | | | | | | |
| | Sep 77 | | 22.49 | | | | | | | | | |
| | Sep 78 | | 41.17 | | | | | | | | | |
| | SURVEY DATA | 26. DATE OF SURVEY | | 37. <u>3</u> 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 | | | |
| Sep 75 | | 1.55 | .78 | 6.0 | 1.55 | | .78 | | 6.0 | | | |
| Sep 77 | | 2.98 | 1.49 | 11.46 | 4.53 | | 1.13 | | 8.69 | | | |
| Sep 78 | | .56 | .56 | 4.31 | 5.09 | | 1.02 | | 7.85 | | | |
| 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 | | | |
| | | | | | | | | | | | | |

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

1/ Item 25 - Temperature taken at Pasadena, California.

2/ Item 32 - Capacity of debris basin varies. Debris excavated at various times.

3/ Item 37 - Sedimentation values computed by LACFCD are based on complete water year.

48. AGENCY MAKING SURVEY LACFCD

49. AGENCY SUPPLYING DATA C of E

50. DATE Feb 79