

RESERVOIR SEDIMENTATION
DATA SUMMARY

Lake Pleasant

60 - 1

NAME OF RESERVOIR

DATA SHEET NO.

| | | | | | | | | |
|-------------------------|---|---|------------------------------------|--|---|-------------------------------|--------------------------------|-----------------------------------|
| DAM | 1. OWNER <u>Maricopa County Mun. Water Conserv. Dist. No. 1</u> | | | 2. RIVER <u>Agua Fria River</u> | | 3. STATE <u>Arizona</u> | | |
| | 4. SEC. - TWP. - RANGE - | | | 5. NEAREST TOWN <u>35 Mi. NW Phoenix</u> | | 6. COUNTY <u>Maricopa</u> | | |
| | 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 | | | | | April 1928 | | |
| | b. POWER | | | | | | | |
| | c. WATER SUPPLY | | | | | | | |
| | d. IRRIGATION | | 3,693 | 184,500 | 184,500 | 16. DATE NORMAL OPER. BEGAN | | |
| | e. CONSERVATION | | | | | | | |
| | f. INACTIVE | | | | | | | |
| 17. LENGTH OF RESERVOIR | | | | MILES | AV. WIDTH OF RESERVOIR | | | |
| | | | | | MILES | | | |
| WATERSHED | 18. TOTAL DRAINAGE AREA | | | 1,450 | SQ. MI. | 22. MEAN ANNUAL PRECIPITATION | | |
| | | | | | | INCHES | | |
| | 19. NET SEDIMENT CONTRIBUTING AREA | | | 1,444 | 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 | | | <u>Arid</u> | |
| 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. |
| | April 1928 | - | - | - | - | 3,693 | 184,500 | 127 |
| | Feb. 1941 | 12.9 | 12.9 | Range Recon. | 8 | 3,693 | 176,456 | 122 |
| | 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 | |
| | Feb. 1941 | 8,044 | 624 | 0.432 | 8,044 | 624 | 0.432 | |
| | 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 | |
| Feb. 1941 | | | | 0.34 | 4.36 | | | |

| | | | | | | | | | | | | | | | |
|---|---|------------|----------------|------------|------------|------------|----------------|----------|-------|-------------------------------|------|------|------|------|------|
| 26. DATE OF SURVEY | 43. DEPTH DESIGNATION RANGE IN FEET ABOVE, AND BELOW, 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 | | | | | | | | | | | | | | | |
| Sedimentation Section Soil Conservation Service U. S. Dept. of Agriculture Washington, D. C. | | | | | | | | | | | | | | | |
| 48. AGENCY SUPPLYING DATA | | | | | | | | | | 49. DATE <u>July 10, 1951</u> | | | | | |