

RESERVOIR SEDIMENTATION
DATA SUMMARY

Rogers Lake
NAME OF RESERVOIR

53-7
DATA SHEET NO.

| | | | | | | | | | | | |
|------------------------------|---|---|------------------------------------|--------------------------------|---|--------------------------------|------------------------------|--|--|--|--|
| DAM | 1. OWNER City of Rogers | | | 2. RIVER Trib. of Little River | | | 3. STATE Texas | | | | |
| | 4. SEC. - TWP. - RANGE - | | | 5. NEAREST TOWN Rogers | | | 6. COUNTY Bell | | | | |
| | 7. STREAM BED ELEV. 82* | | | 8. TOP OF DAM ELEV. 104* | | | 9. SPILLWAY CREST ELEV. 100* | | | | |
| 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 | | | | | Fall, 1922 | | | | | |
| | b. POWER | | | | | | | | | | |
| | c. WATER SUPPLY | 100 | 23.1 | 164 | 164 | 16. DATE NORMAL OPER. BEGAN | | | | | |
| | d. IRRIGATION | | | | | Fall, 1922 | | | | | |
| | e. CONSERVATION | | | | | | | | | | |
| | f. INACTIVE | | | | | | | | | | |
| 17. LENGTH OF RESERVOIR 0.38 | | MILES | | AV. WIDTH OF RESERVOIR 0.11 | | MILES | | | | | |
| WATERSHED | 18. TOTAL DRAINAGE AREA 0.55 | | SQ. MI. | | 22. MEAN ANNUAL PRECIPITATION 35 | | INCHES | | | | |
| | 19. NET SEDIMENT CONTRIBUTING AREA 0.51 | | 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 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. | | | |
| | Fall, 1922 | - | - | - | - | 23.1 | 164 | 298 | | | |
| | Sept. 1934 | 12 | 12 | Contour Detailed | 2' | 21.8 | 126.5 | 230 | | | |
| | 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 | d. MEAN ANNUAL | e. 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 | d. TOTAL TO DATE | e. AV. ANNUAL | f. PER SQ. MI.-YEAR | | | | |
| | Sept. 1934 | 37.5 | 3.12 | 5.68 | 37.5 | 3.12 | 5.68 | | | | |
| | 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 | c. AV. ANNUAL | d. TOT. TO DATE | e. PERIOD | f. TOT. TO DATE | | | | |
| Sept. 1934 | | | | 1.90 | 22.87 | | | | | | |

* 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
 Reference: Unpublished report on sedimentation in Rogers Municipal Reservoir.

48. AGENCY SUPPLYING DATA Region 4, Soil Conservation Service 49. DATE Oct. 1950
U. S. Dept. of Agriculture
Fort Worth, Texas