

RESERVOIR SEDIMENTATION
DATA SUMMARY

Richmond Reservoir

NAME OF RESERVOIR

31-12

DATA SHEET NO.

| | | | | | | | | | | |
|-------------------------|------------------------------------|---------------------------|---|----------------------------|------------------------------------|---|-------------------------|---------------------------------|-----------------------------------|--|
| DAM | 1. OWNER A T & S F RR | | | 2. RIVER Unnamed tributary | | | 3. STATE Kansas | | | |
| | 4. SEC. 24-25 TWP. 19S RANGE 19E | | | 5. NEAREST TOWN Richmond | | | 6. COUNTY Anderson | | | |
| | 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 | | | | | 1909 | | | | |
| | b. POWER | | | | | | | | | |
| | c. WATER SUPPLY | | 60 | 405 | 405 | 16. DATE NORMAL OPER. BEGAN | | | | |
| | d. IRRIGATION | | | | | 1909 | | | | |
| | e. CONSERVATION | | | | | | | | | |
| | f. INACTIVE | | | | | | | | | |
| 17. LENGTH OF RESERVOIR | | 0.7 | MILES | AV. WIDTH OF RESERVOIR | | MILES | | | | |
| WATERSHED | 18. TOTAL DRAINAGE AREA | | 2.17 | SQ. MI. | 22. MEAN ANNUAL PRECIPITATION | | 38.40 (45) | INCHES | | |
| | 19. NET SEDIMENT CONTRIBUTING AREA | | 2.07 | 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 | | | | | |
| | 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. | |
| 1909 | | - | - | - | - | 60 | 405 | 187 | | |
| Oct. 1937 | | 28.0 | 28.0 | Range Recon. | 6 | 60 | 289 | 133 | | |
| SURVEY DATA | 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 | |
| | Oct. 1937 | | 38.40 | | | | | | | |
| | 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 | | |
| Oct. 1937 | | 116 | 4.14 | 2.00 | 116 | 4.14 | 2.00 | | | |
| 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 | | |
| Oct. 1937 | | 60* | 2614 | 2614 | 1.02 | 28.6 | | | | |

* Assumed

| | | | | | | | | | | | | | | |
|-----------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 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
 Dam failed in 1915. Immediately rebuilt. Dam failed again in 1947 and now impounds no water.

Region 5, Soil Conservation Service
 U. S. Dept. of Agriculture
 Lincoln, Nebraska

48. AGENCY SUPPLYING DATA

49. DATE January 3, 1951