

RESERVOIR SEDIMENT
DATA SUMMARY

SCS-34 Rev. 6-66

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

Olenhouse
NAME OF RESERVOIR

45- 49

DATA SHEET NO.

Verdigris Basin

| | | | | | | | | |
|--------------|-------------------------------------|-------------------------------------|-------------------------------------|----------------------------------|--|----------------------------------|----------------------------|-------------------------------------|
| DAM | 1. OWNER Don Olenhouse | | 2. STREAM Trib to Duck Creek | | 3. STATE Kansas | | | |
| | 4. SEC. SW14 TWP. 30 RANGE 14E | | 5. NEAREST P.O. La Fontaine | | 6. COUNTY Wilson | | | |
| | 7. LAT 37° 26' 11" LONG 95° 50' 55" | | 8. TOP OF DAM ELEVATION 100.00* | | 9. SPILLWAY CREST ELEV. 97.00* | | | |
| 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 | | | | | July 1937 | | |
| | b. MULTIPLE USE | | | | | | | |
| | c. POWER | | | | | | | |
| | d. WATER SUPPLY | 97.00* | 1.9 | 3.80 | 3.80 | 16. DATE NORMAL OPER. BEGAN | | |
| | e. IRRIGATION | | | | | July 1937 | | |
| | f. CONSERVATION | | | | | | | |
| | g. INACTIVE | | | | | | | |
| WATERSHED | 17. LENGTH OF RESERVOIR | | 0.10 MILES | | AV. WIDTH OF RESERVOIR 0.03 MILES | | | |
| | 18. TOTAL DRAINAGE AREA | | 0.13 SQ. MI. | | 22. MEAN ANNUAL PRECIPITATION 37.00 INCHES | | | |
| | 19. NET SEDIMENT CONTRIBUTING AREA | | 0.13 SQ. MI. | | 23. MEAN ANNUAL RUNOFF 7.00 INCHES | | | |
| | 20. LENGTH 0.42 MILES | | AV. WIDTH 0.32 MILES | | 24. MEAN ANNUAL RUNOFF 48.5 AC.-FT. | | | |
| | 21. MAX. ELEV. 940.00 | | MIN. ELEV. 921.00 | | 25. ANNUAL TEMP: MEAN 57 RANGE -26 to 121 | | | |
| 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. |
| | July 27 1967 | 30 | 30 | Range | 6 | 1.9 | Original 3.80 Present 3.00 | 0.080 0.062 |
| | 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 | |
| | | | | | | | | |
| | 26. DATE OF SURVEY | 37. 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 | |
| | July 27 1967 | 0.80 | 0.03 | 0.23 | 0.80 | 0.03 | 0.23 | |
| | 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 | |
| July 27 1967 | 60* | 300 | 300 | 0.80 | 21.00 | | | |

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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 | | | | | | | | | | | | | | | |
| <p>* Assumed</p> <p>Land Use: P_G = 30% with 3 - 4% slopes Lct. = 70% - terraces built in 1949 and are 60% effective 1 - 2% slopes T.E. = 75% Watershed yield = 0.31 ac. ft./sq. mi./yr.</p> | | | | | | | | | | | | | | | |
| 48. AGENCY MAKING SURVEY | | | | | | | | | | | | | | | |
| 49. AGENCY SUPPLYING DATA U.S.D.A., Soil Conservation Service | | | | | | | | | | | | | | | |
| 50. DATE July 27, 1967 | | | | | | | | | | | | | | | |