

RESERVOIR SEDIMENT  
DATA SUMMARY

SCS-34 Rev. 6-66

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

Fry  
NAME OF RESERVOIR

46- 44

DATA SHEET NO.

Trib. to

|                       |  |                          |                                     |  |  |            |                                       |                         |  |   |                             |                                    |                     |  |
|-----------------------|--|--------------------------|-------------------------------------|--|--|------------|---------------------------------------|-------------------------|--|---|-----------------------------|------------------------------------|---------------------|--|
| DAM                   | 1. OWNER <u>Wayne Fry</u>                              |                          |                                     | 2. STREAM <u>Little Ark. River</u>     |  |            | 3. STATE <u>Kansas</u>                |                         |  |   |                             |                                    |                     |  |
|                       | 4. SEC. <u>22</u> TWP. <u>20S</u> RANGE <u>6W</u>      |                          |                                     | 5. NEAREST P.O. <u>Little River</u>    |  |            | 6. COUNTY <u>Rice</u>                 |                         |  |   |                             |                                    |                     |  |
|                       | 7. LAT. <u>38 17 30N</u> LONG. <u>97 59 W</u>          |                          |                                     | 8. TOP OF DAM ELEVATION <u>100.001</u> |  |            | 9. SPILLWAY CREST ELEV. <u>96.001</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                                       |                          |                                     |  |  |            |                                       |                         |  |   | August 1949                 |                                    |                     |  |
|                       | b. MULTIPLE USE  |                          |                                     |  |  |            |                                       |                         |  |   |                             |                                    |                     |  |
|                       | c. POWER   |                          |                                     |  |  |            |                                       |                         |  |   |                             |                                    |                     |  |
|                       | d. WATER SUPPLY  |                          | <u>96.00</u>                        |  | <u>0.85</u>  |            | <u>4.13</u>                           |                         | <u>4.13</u>                                |   | 16. DATE NORMAL OPER. BEGAN |                                    |                     |  |
|                       | e. IRRIGATION  |                          |                                     |  |  |            |                                       |                         |  |   | August 1949                 |                                    |                     |  |
|                       | f. CONSERVATION  |                          |                                     |  |  |            |                                       |                         |  |   |                             |                                    |                     |  |
|                       | g. INACTIVE  |                          |                                     |  |  |            |                                       |                         |  |   |                             |                                    |                     |  |
| WATERSHED             | 17. LENGTH OF RESERVOIR <u>0.06</u> MILES              |                          |                                     |  | AV. WIDTH OF RESERVOIR <u>0.03</u> MILES                 |            |                                       |                         |  |   |                             |                                    |                     |  |
|                       | 18. TOTAL DRAINAGE AREA <u>1.07</u> SQ. MI.            |                          |                                     |  | 22. MEAN ANNUAL PRECIPITATION <u>26.20</u> INCHES        |            |                                       |                         |  |   |                             |                                    |                     |  |
|                       | 19. NET SEDIMENT CONTRIBUTING AREA <u>1.07</u> SQ. MI. |                          |                                     |  | 23. MEAN ANNUAL RUNOFF <u>1.20</u> INCHES                |            |                                       |                         |  |   |                             |                                    |                     |  |
|                       | 20. LENGTH <u>1.21</u> MILES                           |                          | AV. WIDTH <u>0.90</u> MILES         |  | 24. MEAN ANNUAL RUNOFF <u>68</u> AC.-FT.                 |            |                                       |                         |  |   |                             |                                    |                     |  |
|                       | 21. MAX. ELEV.   |                          | MIN. ELEV.                          |  | 25. ANNUAL TEMP: MEAN <u>57</u> RANGE <u>-27 to +114</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/I RATIO, AC.-FT. PER AC.-FT. |                     |  |
|                       | <u>August 26 1968</u>                                  |                          | <u>19.00</u>                        | <u>19.00</u>                           | <u>Range</u>   |            | <u>4</u>                              | <u>0.85</u>             |  | <u>Original 4.13</u><br><u>Present 1.37</u> |                             | <u>0.060</u><br><u>0.020</u>       |                     |  |
|                       | 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    |  |
|                       |  |                          |                                     |  | Questionable Survey<br>Pond full of Sediment             |            |                                       |                         |  |   |                             |                                    |                     |  |
|                       | 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 |  |
|                       | <u>August 26 1968</u>                                  |                          | <u>2.76</u>                         |  | <u>0.15</u>  |            | <u>0.14</u>                           |                         | <u>2.76</u>                                |   | <u>0.15</u>                 |                                    | <u>0.14</u>         |  |
|                       | 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     |  |
| <u>August 26 1968</u> |  | <u>60# <del>37</del></u> |                                     | <u>183</u>                             |  | <u>183</u> |                                       | <u>3.5%</u>             |  | <u>66%</u>                                  |                             |                                    |                     |  |

Trap Efficiency 70%

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

Cropland 84% very flat

Pasture 16% very flat

Terraces Applied in 1960 to 1962

1/ Assumed Elevations

48. AGENCY MAKING SURVEY

49. AGENCY SUPPLYING DATA **USDA - SCS**

50. DATE Sept. 10, 1968