

RESERVOIR SEDIMENT DATA SUMMARY

W-2 Walnut Creek
NAME OF RESERVOIR

31-72
DATA SHEET NO.

| | | | | | | | | | | | | | | | | | | | |
|---------------------|--|----------------|---|--|---|--|----------------------------------|----------------------------------|-----------------------------------|--|-----------------------------|------|-------------------------|--|-------------------------------------|--|--|------|--|
| DAM | 1. OWNER P. H. Lisenbise | | | 2. STREAM Trib. of Walnut | | | 3. STATE Kansas | | | | | | | | | | | | |
| | 4. SEC. 9 TWP. 2S RANGE 16E | | | 5. NEAREST P.O. Hiawatha | | | 6. COUNTY Brown | | | | | | | | | | | | |
| | 7. LAT. 39° 53'00" LONG. 95° 37'20" | | | 8. TOP OF DAM ELEVATION 1019.9 | | | 9. SPILLWAY CREST ELEV. 1014.6 | | | | | | | | | | | | |
| 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 | | 1014.6 | | 27.24 | | 166.3 | | 208.8 | | 3/26/64 | | | | | | | | |
| | b. MULTIPLE USE | | | | | | | | | | | | | | | | | | |
| | c. POWER | | | | | | | | | | | | | | | | | | |
| | d. WATER SUPPLY | | | | | | | | | | 16. DATE NORMAL OPER. BEGAN | | | | | | | | |
| | e. IRRIGATION | | | | | | | | | | 3/26/64 | | | | | | | | |
| | f. CONSERVATION | | | | | | | | | | | | | | | | | | |
| WATERSHED | g. INACTIVE 1/ | | 1005.0 | | 9.06 | | 42.5 | | 42.5 | | | | | | | | | | |
| | 17. LENGTH OF RESERVOIR 0.42 MILES | | | AV. WIDTH OF RESERVOIR 0.1 MILES | | | | | | | | | | | | | | | |
| | 18. TOTAL DRAINAGE AREA 0.77 SQ. MI. | | | 22. MEAN ANNUAL PRECIPITATION 36.95 INCHES | | | | | | | | | | | | | | | |
| | 19. NET SEDIMENT CONTRIBUTING AREA 0.63 2/ SQ. MI. | | | 23. MEAN ANNUAL RUNOFF 5.6 INCHES | | | | | | | | | | | | | | | |
| | 20. LENGTH 0.7 MILES | | AV. WIDTH 1.1 MILES | | 24. MEAN ANNUAL RUNOFF 230.0 AC.-FT. | | | | | | | | | | | | | | |
| 21. MAX. ELEV. 1070 | | MIN. ELEV. 990 | | 25. ANNUAL TEMP: MEAN RANGE | | | | | | | | | | | | | | | |
| 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. | | | | |
| | 3/64 | | - | | - | | - | | - | | 27.24 | | 208.8 | | 0.91 | | | | |
| | 6/77 | | 13.3 | | 13.3 | | Range | | 15 | | 27.24 | | 189.4 | | 0.82 | | | | |
| 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 | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| SURVEY DATA | 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 | | | | | | | | | | | | | |
| | 6/77 | | 19.4 | | | 1.46 | | | 2.32 | | | 19.4 | | | 1.46 | | | 2.32 | |
| SURVEY DATA | 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 | | | | | | | | | | | | |
| | 6/77 | | 51(6) | | 2577 | | 2577 | | 0.70 | | 9.29 | | | | | | | | |

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| 26. DATE OF SURVEY | 43. DEPTH DESIGNATION RANGE IN FEET BELOW, AND ABOVE, CREST ELEVATION | | | | | | | | | | | |
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| | 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 | | | | | | | | | | | | | | |
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| 45. RANGE IN RESERVOIR OPERATION | | | | | | | |
|----------------------------------|------------|------------|-----------------|------------|------------|------------|-----------------|
| WATER YEAR | MAX. ELEV. | MIN. ELEV. | INFLOW, AC.-FT. | WATER YEAR | MAX. ELEV. | MIN. ELEV. | INFLOW, AC.-FT. |
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| 46. ELEVATION-AREA-CAPACITY DATA | | | | | | | | |
|----------------------------------|------|----------|-----------|------|----------|-----------|------|----------|
| ELEVATION | AREA | CAPACITY | ELEVATION | AREA | CAPACITY | ELEVATION | AREA | CAPACITY |
| | | | | | | | | |

47. REMARKS AND REFERENCES

1/ Sediment pool.

2/ Excludes 0.10 square miles controlled by grade stabilization structure GS-28.

48. AGENCY MAKING SURVEY Soil Conservation Service
 49. AGENCY SUPPLYING DATA Soil Conservation Service
 50. DATE 12/77