

RESERVOIR SEDIMENTATION
DATA SUMMARY

Buffalo
NAME OF RESERVOIR

45 - 27
DATA SHEET NO.

| | | | | | | | | | | | | | | | | | | |
|----------------|------------------------------------|-----------|---|------------------------|-------------------------------------|---------------|-------------------------|-----------------------------|---|-------------------------------|-----------------------------|------------------------|---------------------------------|--|------------------------------------|--|----------|--|
| DAM | 1. OWNER E. W. Kibbey | | | 2. RIVER Bee Creek | | | 3. STATE Kansas | | | | | | | | | | | |
| | 4. SEC. SE 11 TWP. 33 RANGE 13 E | | | 5. NEAREST TOWN Havana | | | 6. COUNTY Montgomery | | | | | | | | | | | |
| | 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 | | | | | | | | | | August 1934 | | | | | | | |
| | b. POWER | | | | | | | | | | | | | | | | | |
| | c. WATER SUPPLY | | | | 8.8 | | 51.7 | | 51.7 | | 16. DATE NORMAL OPER. BEGAN | | | | | | | |
| | d. IRRIGATION | | | | | | | | | | | | | | | | | |
| | e. CONSERVATION | | | | | | | | | | August 1934 | | | | | | | |
| | f. INACTIVE | | | | | | | | | | | | | | | | | |
| WATERSHED | 17. LENGTH OF RESERVOIR | | | | | MILES | | AV. WIDTH OF RESERVOIR | | | | | MILES | | | | | |
| | 18. TOTAL DRAINAGE AREA | | | | | 0.26 | | SQ. MI. | | 22. MEAN ANNUAL PRECIPITATION | | | | | 35 INCHES | | | |
| | 19. NET SEDIMENT CONTRIBUTING AREA | | | | | 0.26 | | 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 | | | | | | | | | | |
| 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. | | | |
| | 1934 | | - | | - | | - | | - | | 8.8 | | 51.7 | | 194 | | | |
| | September 1960 | | 26 | | 26 | | Range | | 5 | | 8.5 | | 48.5 | | 186.5 | | | |
| | 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 | | b. 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 | | b. AV. ANNUAL | | c. PER SQ. MI.- YEAR | | | | | |
| | September 1960 | | 3.16 | | 0.12 | | 0.45 | | 3.16 | | 0.12 | | 0.45 | | | | | |
| | 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. TOT. TO DATE | | | | | |
| | | a. PERIOD | | b. TOTAL TO DATE | | a. AV. ANNUAL | | b. TOT. TO DATE | | a. PERIOD | | b. TOT. TO DATE | | | | | | |
| September 1960 | | 50 | | 490 | | 490 | | 0.23 | | 6.11 | | | | | | | | |

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|-----------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|
| 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 | | | | | | | | | | | | | | |
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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. |
| | | | | | | | |

| 46. ELEVATION-AREA-CAPACITY DATA | | | | | | | | |
|----------------------------------|------|----------|-----------|------|----------|-----------|------|----------|
| ELEVATION | AREA | CAPACITY | ELEVATION | AREA | CAPACITY | ELEVATION | AREA | CAPACITY |
| | | | | | | | | |

47. REMARKS AND REFERENCES

48. AGENCY SUPPLYING DATA SOIL CONSERVATION SERVICE

49. DATE NOV - 61