

RESERVOIR SEDIMENT
DATA SUMMARY

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

SCS-34 Rev. 6-66

Leroy Hemish

NAME OF RESERVOIR

28-2

DATA SHEET NO.

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|---------------------------------------|--|---------------------------|-------------------------------------|----------------------------------|------------------------|----------------------------------|--|--|----------------|-----------------------------|---------------------|-------------------------------|------|-------------------------------------|--|-----|--|--|--|----------|--|--|--|--------|--|--|--|
| DAM | 1. OWNER Leroy Hemish | | | 2. STREAM Lac Qui Parle | | | 3. STATE Minnesota | | | | | | | | | | | | | | | | | | | | | |
| | 4. SEC. 36 TWP. 114 RANGE 46 | | | 5. NEAREST P.O. Canby | | | 6. COUNTY Yellow Medicine | | | | | | | | | | | | | | | | | | | | | |
| | 7. LAT. 44° 38' 26" LONG. 96° 21' 01" | | | 8. TOP OF DAM ELEVATION 45.4* | | | 9. SPILLWAY CREST ELEV. 42.7 | | | | | | | | | | | | | | | | | | | | | |
| 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 | | 42.7 | | 10.6 | | 77.00 | | 98.89 | | August 1968 | | | | | | | | | | | | | | | | | |
| | b. MULTIPLE USE | | | | | | | | | | 16. DATE NORMAL OPER. BEGAN | | | | | | | | | | | | | | | | | |
| | c. POWER | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | d. WATER SUPPLY | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | e. IRRIGATION | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | f. CONSERVATION | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| g. INACTIVE 1 | | 32.5 | | 4.78 | | 21.89 | | 21.89 | | | | | | | | | | | | | | | | | | | | |
| 17. LENGTH OF RESERVOIR | | | .276 | | | MILES | | | AV. WIDTH OF RESERVOIR | | | .06 | | | MILES | | | | | | | | | | | | | |
| WATERSHED | 18. TOTAL DRAINAGE AREA | | | | 2.12 | | | | SQ. MI. | | | | 22. MEAN ANNUAL PRECIPITATION | | | | 23 | | | | INCHES | | | | | | | |
| | 19. NET SEDIMENT CONTRIBUTING AREA | | | | 2.10 | | | | SQ. MI. | | | | 23. MEAN ANNUAL RUNOFF | | | | 1.5 | | | | 2' | | | | INCHES | | | |
| | 20. LENGTH | | 1.5 | | MILES | | AV. WIDTH | | 1.4 | | MILES | | 24. MEAN ANNUAL RUNOFF | | | | 170 | | | | AC.-F.T. | | | | | | | |
| | 21. MAX. ELEV. 122.5 | | | | MIN. ELEV. 32.5 | | | | 25. ANNUAL TEMP: MEAN 44°F RANGE 12° to 72°F | | | | | | | | | | | | | | | | | | | |
| | 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. | | | | | | | | | | | | | |
| 8-14-68 | | - | | - | | - | | - | | 10.6 | | 98.89 | | 0.58 | | | | | | | | | | | | | | |
| 6-14-72 | | 3.8 | | 3.8 | | Range method | | 16 | | 10.6 | | 96.69 | | 0.57 | | | | | | | | | | | | | | |
| 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 | | | | | | | | | | | | | | | | |
| 6-14-72 | | 27.13 | | 170 | | 283 | | 680 | | 170 | | 680 | | | | | | | | | | | | | | | | |
| 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 | | | | | | | | | | | | | | | | |
| 6-14-72 | | 2.20 | | 0.58 | | 0.28 | | 2.20 | | 0.58 | | 0.28 | | | | | | | | | | | | | | | | |
| 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 | | | | | | | | | | | | | | | | |
| 6-14-72 | | use 56.1 lbs.** (average of 5 samples) | | 336 | | 336 | | 0.58 | | 2.22 | | | | | | | | | | | | | | | | | | |

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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 | | | | | | | | | | | | |
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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 | | | | | | | | | | | | | | |
| 6-14-72 | 12.5 | 9.2 | 14.0 | 13.0 | 20.5 | 5.1 | 0.8 | 0.2 | 0.1 | | | | | | |

| 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

2' Data from USGS circular #52 & Kerr Report December 1950

*Assumed Datum
**Estimated

48. AGENCY MAKING SURVEY SCS-USDA
49. AGENCY SUPPLYING DATA SCS-USDA

50. DATE July, 1976