

**RESERVOIR SEDIMENTATION
 DATA SUMMARY**

Farina Lake

17-10

NAME OF RESERVOIR

DATA SHEET NO.

| | | | | | | | | |
|--------------------------------------|---|--|------------------------------------|--------------------------------------|--|---------------------------------|----------------------------|-----------------------------------|
| DAM | 1. OWNER <u>Farina Lake Club</u> | | 2. RIVER <u>None</u> | | 3. STATE <u>Illinois</u> | | | |
| | 4. LONG. <u>25</u> LAT. <u>5N</u> RANGE <u>4E</u> | | 5. NEAREST TOWN <u>Laclede</u> | | 6. COUNTY <u>Fayette</u> | | | |
| | 7. STREAM BED ELEV. <u>550</u> ↓ | | 8. TOP OF DAM ELEV. <u>565</u> ↓ | | 9. SPILLWAY CREST ELEV. <u>559</u> | | | |
| 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 | | | | | 1928 | | |
| | b. POWER | | | | | | | |
| | c. WATER SUPPLY | | | | | 16. DATE NORMAL OPER. BEGAN | | |
| | d. IRRIGATION | | | | | | | |
| | e. CONSERVATION | <u>559</u> | <u>4.3</u> | <u>16.4</u> | <u>16.4</u> | | | |
| | f. INACTIVE | | | | | | | |
| 17. LENGTH OF RESERVOIR <u>0.195</u> | | MILES | | AV. WIDTH OF RESERVOIR <u>0.0344</u> | | FEET | | |
| WATERSHED | 18. TOTAL DRAINAGE AREA <u>0.538</u> | | SQ. MI. | | 22. MEAN ANNUAL PRECIPITATION <u>(45) 39</u> | | INCHES | |
| | 19. NET SEDIMENT CONTRIBUTING AREA <u>0.531</u> | | SQ. MI. | | 23. MEAN ANNUAL RUNOFF <u>(20-40) 10</u> | | INCHES | |
| | 20. LENGTH <u>0.805</u> | | MILES | | AV. WIDTH <u>0.668</u> | | MILES | |
| | 24. MEAN ANNUAL RUNOFF <u>286.8</u> | | | | | | AC.-FT. | |
| | 21. MAX. ELEV. <u>570</u> ↓ | | MIN. ELEV. <u>550</u> ↓ | | 25. CLIMATIC CLASSIFICATION <u>Humid</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/W RATIO AC.-FT. PER SQ. MI. |
| | <u>Aug. 1958</u> | <u>30</u> | <u>30</u> | <u>RD</u> | <u>5</u> | <u>4.3</u> <u>4.3</u> | <u>16.4</u> <u>13.3</u> | <u>30.48</u> <u>24.72</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 | d. MEAN ANNUAL | e. 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 | e. AV. ANNUAL | f. PER SQ. MI.-YEAR | |
| | <u>Aug. 1958</u> | <u>3.1</u> | <u>0.10</u> | <u>0.19</u> | <u>3.1</u> | <u>0.10</u> | <u>0.19</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. ANNUAL | b. TOT. TO DATE | a. PERIOD | b. TOT. TO DATE |
| <u>Aug. 1958</u> | <u>61.94</u> <u>(5)</u> | <u>256.35</u> | <u>256.35</u> | <u>0.6</u> | <u>18.9</u> | | | |

| | | | | | | | | | | | | | | | |
|---|---|------------|----------------|------------|------------|------------|----------------|----------|-------|--------|------|------|------|----------------------|------|
| 26. DATE OF SURVEY | 43. DEPTH DESIGNATION RANGE IN FEET ABOVE, AND BELOW, 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 | | | | | | | | | | | | | | | |
| <u>1</u> / Estimated from USGS Quad. Sheets | | | | | | | | | | | | | | | |
| 48. AGENCY SUPPLYING DATA Illinois State Water Survey | | | | | | | | | | | | | | 49. DATE 6 Oct. 1961 | |