

RESERVOIR SEDIMENTATION
DATA SUMMARY

Lake Bunker Hill

24-37

NAME OF RESERVOIR

DATA SHEET NO.

| | | | | | | | | |
|------------------------------------|---|---|------------------------------------|---|---|---------------------------------|-------------------------|-----------------------------------|
| DAM | 1. OWNER City of Bunker Hill | | | 2. RIVER Wood River | | 3. STATE Illinois | | |
| | 4. SEC. 16 TWP. 7N RANGE 8W | | | 5. NEAREST TOWN Bunker Hill | | 6. COUNTY Macoupin | | |
| | 7. STREAM BED ELEV. 576 | | | 8. TOP OF DAM ELEV. 589 | | 9. SPILLWAY CREST ELEV. 583 | | |
| 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 | | | | | 1937 | | |
| | b. POWER | | | | | | | |
| | c. WATER SUPPLY | 583 | 27.6 | 133 | 133 | 16. DATE NORMAL OPER. BEGAN | | |
| | d. IRRIGATION | | | | | | | |
| | e. CONSERVATION | | | | | | | |
| | f. INACTIVE | | | | | | | |
| 17. LENGTH OF RESERVOIR .682 MILES | | | | AV. WIDTH OF RESERVOIR .586 MILES | | | | |
| WATERSHED | 18. TOTAL DRAINAGE AREA 7.19 SQ. MI. | | | 22. MEAN ANNUAL PRECIPITATION 38 INCHES | | | | |
| | 19. NET SEDIMENT CONTRIBUTING AREA 7.15 SQ. MI. | | | 23. MEAN ANNUAL RUNOFF 10.5 INCHES | | | | |
| | 20. LENGTH 3.0 MILES | | AV. WIDTH 2.38 MILES | | 24. MEAN ANNUAL RUNOFF 4004 AC.-FT. | | | |
| | 21. MAX. ELEV. 660 | | MIN. ELEV. 576 | | 25. CLIMATIC CLASSIFICATION Humid | | | |
| | | | | | | | | |
| 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. |
| | June 1937 1954 | 17 | 17 | D | 5 | 27.6 | 133 36 | 18.5 5.0 |
| | 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 | |
| | | | | | | | | |
| | 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 | a. TOTAL TO DATE | b. AV. ANNUAL | c. PER SQ. MI.-YEAR | |
| | June 1954 | 97 | 5.71 | .80 | 97 | 5.71 | .80 | |
| | 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 |
| June 1954 | 79.2 (5) | 1380 | 1380 | 3.89 | 72.93 | | | |

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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 | | | | | | | | | | | | | | |
| 1954 | 10.0 | 11.0 | 10.5 | 9.5 | 14.0 | 17.0 | 11.5 | 5.5 | 5.5 | 5.5 | | | | | |

| 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 |
| 583 | 16.75 | 14.0 | 578 | 9.0 | 1.0 | | | |
| 582 | 15.10 | 9.0 | 577 | 7.5 | 0.2 | | | |
| 581 | 13.60 | 6.4 | 576 | 5.9 | 0.0 | | | |
| 580 | 12.00 | 4.0 | | | | | | |
| 579 | 10.70 | 2.2 | | | | | | |

47. REMARKS AND REFERENCES