

RESERVOIR SEDIMENTATION
DATA SUMMARY

Hosterman Lake

NAME OF RESERVOIR

19-25

DATA SHEET NO.

| | | | | | | | | | |
|------------------------------------|---|---------------------------------|---|--|-----------------------------------|---|---------------------------------|-------------------------|-----------------------------------|
| DAM | 1. OWNER State of Ohio | | | | 2. RIVER Tr. of Mad River | | 3. STATE Ohio | | |
| | 4. SEC. 27 TWP. 4 RANGE 9 | | | 5. NEAREST TOWN Springfield | | 6. COUNTY Clark | | | |
| | 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 | | | | | Nov. 1938 | | | |
| | b. POWER | | | | | 16. DATE NORMAL OPER. BEGAN | | | |
| | c. WATER SUPPLY | | | | | 1939 | | | |
| | d. IRRIGATION | | | | | | | | |
| | e. CONSERVATION | | | 9.2 | 83 | 83 | | | |
| | f. INACTIVE | | | | | | | | |
| 17. LENGTH OF RESERVOIR 0.25 MILES | | | | AV. WIDTH OF RESERVOIR 0.15 MILES | | | | | |
| WATERSHED | 18. TOTAL DRAINAGE AREA 1.59 SQ. MI. | | | 22. MEAN ANNUAL PRECIPITATION 36.83 (25 yrs.) INCHES | | | | | |
| | 19. NET SEDIMENT CONTRIBUTING AREA 1.58 SQ. MI. | | | 23. MEAN ANNUAL RUNOFF INCHES | | | | | |
| | 20. LENGTH 2.5 MILES | | AV. WIDTH 0.65 MILES | | 24. MEAN ANNUAL RUNOFF AC.-FT. | | | | |
| | 21. MAX. ELEV. 1040 | | MIN. ELEV. 900 | | 25. CLIMATIC CLASSIFICATION Humid | | | | |
| | 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. |
| Nov. 1938 Aug. 23, 1951 | | - 12.7 | - 12.7 | - Range Detailed | - 5 | 9.2 9.2 | 83. 75 | 52 47 | |
| 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 | | | |
| | 26. DATE OF SURVEY | | 37. PERIOD SEDIMENT DEPOSITS ACRE- FEET | | | 38. TOTAL SED. DEPOSITS TO DATE ACRE- FEET. | | | |
| Aug 23, 1951 | | a. PERIOD TOTAL | b. AV. ANNUAL | c. PER SQ. MI.-YEAR | d. TOTAL TO DATE | e. AV. ANNUAL | f. PER SQ. MI.-YEAR | | |
| | | 7.68 | .60 | 0.38 | 7.68 | .60 | 0.38 | | |
| 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 | c. PERIOD | d. TOT. TO DATE | | | |
| Aug 23, 1951 | | 66.2 | 548 | 548 | 0.72 | 9.25 | - | - | |

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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 Ohio Division of Water 49. DATE June 18, 1954