

RESERVOIR SEDIMENTATION
DATA SUMMARY

P. T. McAlexander

NAME OF RESERVOIR

15 - 8

DATA SHEET NO.

| DAM | 1. OWNER P. T. McAlexander | | | 2. RIVER Unnamed Trib. of Coldwater River | | 3. STATE Mississippi | | |
|-------------|---|---|-------------------------------------|--|---|-------------------------------|---------------------------------|--|
| | 4. SEC. 10 TWP. 3S RANGE 3W | | | 5. NEAREST TOWN Holly Springs | | 6. COUNTY Marshall | | |
| | 7. STREAM BED ELEV. 90.4 * | | | 8. TOP OF DAM ELEV. | | 9. SPILLWAY CREST ELEV. 100 * | | |
| 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 | | | | | Aug. 1942 | | |
| | b. POWER | | | | | | | |
| | c. WATER SUPPLY | | | | | 16. DATE NORMAL OPER. BEGAN | | |
| | d. IRRIGATION | | | | | | | |
| | e. CONSERVATION | 100.0 | 0.70 | 2.46 | 2.46 | Aug. 1942 | | |
| | f. INACTIVE | | | | | | | |
| WATERSHED | 17. LENGTH OF RESERVOIR 0.0795 MILES | | | AV. WIDTH OF RESERVOIR 0.0138 MILES | | | | |
| | 18. TOTAL DRAINAGE AREA 0.0139 SQ. MI. | | | 22. MEAN ANNUAL PRECIPITATION 49.47 INCHES | | | | |
| | 19. NET SEDIMENT CONTRIBUTING AREA 0.0128 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 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. |
| | Aug. 1942 | - | - | - | - | 0.70 | 2.46 | 177 |
| | Jan. 1951 | 8.5 | 8.5 | Range detailed | 3 | 0.41 | 1.11 | 79.9 |
| | 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 |
| | Jan. 1951 | 54.27 | | | | | | |
| | 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 | |
| | Jan. 1951 | 1.35 (1.78) <u>1/</u> | 0.159 (0.209) | 12.4 (16.3) | 1.35 (1.78) | 0.159 (0.209) | 12.4 (16.3) | |
| | 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 | |
| Jan. 1951 | 84.24 (2) | 22,800 (29,900) | 22,800 (29,900) | 6.46 | 54.9 | - | - | |

* Assumed

1/ Above-crest deposits within original flow line.

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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 |
| 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. |
| | | | | | | | |

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

47. REMARKS AND REFERENCES

Region 2, Soil Conservation Service
U. S. Dept. of Agriculture
Spartanburg, South Carolina

48. AGENCY SUPPLYING DATA

49. DATE April 30, 1951