

RESERVOIR SEDIMENTATION  
DATA SUMMARY

Savage River Dam

5-10

NAME OF RESERVOIR

DATA SHEET NO.

|                                   |   |                                    |                                   |  |                           |                                   |   |                        |                                   |
|-----------------------------------|---|------------------------------------|-----------------------------------|--|---------------------------|-----------------------------------|---|------------------------|-----------------------------------|
| DAM                               | 1. OWNER Upper Potomac River Comm.*               |                                    |                                   | 2. RIVER Savage                                    |                           |                                   | 3. STATE Maryland                               |                        |                                   |
|                                   | 4. SEC. TWP. RANGE                                |                                    |                                   | 5. NEAREST TOWN Bloomington, Md.                   |                           |                                   | 6. COUNTY Garrett                               |                        |                                   |
|                                   | 7. STREAM BED ELEV. 1313                          |                                    |                                   | 8. TOP OF DAM ELEV. 1497.5                         |                           |                                   | 9. SPILLWAY CREST ELEV. 1468.5                  |                        |                                   |
| 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 1/                               | 1468.5                             | 360                               | 16,300   | 20,300 1/                 | March 1952                        |   |                        |                                   |
|                                   | b. POWER  |                                    |                                   |  |                           |                                   |   |                        |                                   |
|                                   | c. WATER SUPPLY 1/                                | 1468.5                             | 360                               | 16,300   | 20,300 1/                 | 16. DATE NORMAL OPER. BEGAN       |   |                        |                                   |
|                                   | d. IRRIGATION                                     |                                    |                                   |  |                           |                                   |   |                        |                                   |
|                                   | e. CONSERVATION                                   |                                    |                                   |  |                           | 11 Jan 1952                       |   |                        |                                   |
|                                   | f. INACTIVE                                       | 1398.5                             | 122                               | 4,000  | 4,000                     |                                   |   |                        |                                   |
| 17. LENGTH OF RESERVOIR 2.7 MILES |   |                                    | AV. WIDTH OF RESERVOIR 0.2 MILES  |  |                           |                                   |   |                        |                                   |
| WATERSHED                         | 18. TOTAL DRAINAGE AREA 105.0 SQ. MI.             |                                    |                                   | 22. MEAN ANNUAL PRECIPITATION 41.6 (37 yrs) INCHES |                           |                                   |   |                        |                                   |
|                                   | 19. NET SEDIMENT CONTRIBUTING AREA 104.44 SQ. MI. |                                    |                                   | 23. MEAN ANNUAL RUNOFF 21.1 (28 yrs) INCHES        |                           |                                   |   |                        |                                   |
|                                   | 20. LENGTH 27 MILES                               |                                    |                                   | AV. WIDTH 4 MILES                                  |                           |                                   | 24. MEAN ANNUAL RUNOFF 118,270 (28 yrs) AC.-FT. |                        |                                   |
|                                   | 21. MAX. ELEV. 3000                               |                                    |                                   | MIN. ELEV. 1313                                    |                           |                                   | 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. |
| 3/52                              |   | -                                  | -                                 | Range  | 28                        | 360                               | 20,300  | 193                    |                                   |
| 3/56                              |   | 4.0                                | 4.0                               | Range  | 16                        | 360                               | 20,020  | 191                    |                                   |
| 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                                |                        |                                   |
|                                   | 3/52  | (Inches)                           | -                                 | -  | -                         | -                                 | -   | -                      | -                                 |
| 3/56                              | 43.9  | 107,639                            | -                                 | 430,555  | 107,639                   | 430,555                           |   |                        |                                   |
| 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.-YR.                | a. TOTAL TO DATE                                   | b. AV. ANNUAL             | c. PER SQ. MI.-YR.                |   |                        |                                   |
| 3/52                              | -   | -                                  | -                                 | -  | -                         | -                                 |   |                        |                                   |
| 3/56                              | 269.90  | 67.50                              | .643                              | 269.90   | 67.50                     | .643                              |   |                        |                                   |
| 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. TO DATE                | a. PERIOD                         | b. TO DATE                                      |                        |                                   |
| 3/56                              | 60 (Est)  | 840                                | 840                               | 0.33   | 1.33                      | -                                 |   |                        |                                   |

| 26. DATE OF SURVEY  | 43. DEPTH DESIGNATION RANGE IN FEET ABOVE, AND BELOW, CREST ELEVATION |            |                |            |            |                       |                |          |       |        |      |      |      |      |      |
|---|---|------------|----------------|------------|------------|-----------------------|----------------|----------|-------|--------|------|------|------|------|------|
|   | 146-120   | 120-60     | 90-89          | 80-60      | 60-40      | 40-20                 | 20-10          | 10-0     |       |        |      |      |      |      |      |
| PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION  |   |            |                |            |            |                       |                |          |       |        |      |      |      |      |      |
| 3/56  | 38  | 22         | 7              | 7          | 10         | 14                    | 1              | 1        |       |        |      |      |      |      |      |
| 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  |   |            |                |            |            |                       |                |          |       |        |      |      |      |      |      |
| 2/ 3/56   | 2/ Savage Reach   | 14         | 15             | 24         | 7          | 10                    | 5              | 4        | 7     | 13     | 1    |      |      |      |      |
| 3/  | Crabtree Reach  | 15         | 15             | 30         | 4          | 14                    | 7              | 2        | 2     | 9      | 2    |      |      |      |      |
| 45. RANGE IN RESERVOIR OPERATION  |   |            |                |            |            |                       |                |          |       |        |      |      |      |      |      |
| WATER YEAR  | MAX. ELEV.  | MIN. ELEV. | INFLOW AC.-FT. | WATER YEAR | MAX. ELEV. | MIN. ELEV.            | INFLOW AC.-FT. |          |       |        |      |      |      |      |      |
| 1953  | 1469.0  | 1399       | 112,088        |            |            |                       |                |          |       |        |      |      |      |      |      |
| 1954  | 1472  | 1384       | 61,164         |            |            |                       |                |          |       |        |      |      |      |      |      |
| 1955  | 1469.5  | 1395       | 177,465        |            |            |                       |                |          |       |        |      |      |      |      |      |
| 1956  | 1469.0  | 1392       | -              |            |            |                       |                |          |       |        |      |      |      |      |      |
| 46. ELEVATION-AREA-CAPACITY DATA  |   |            |                |            |            |                       |                |          |       |        |      |      |      |      |      |
| ELEVATION   | AREA  | CAPACITY   | ELEVATION      | AREA       | CAPACITY   | ELEVATION             | AREA           | CAPACITY |       |        |      |      |      |      |      |
| 1468.5  | 360   | 20,030     |                |            |            |                       |                |          |       |        |      |      |      |      |      |
| 47. REMARKS AND REFERENCES  |   |            |                |            |            |                       |                |          |       |        |      |      |      |      |      |
| <p>1/ Active storage (16,300 AF) allocated to FC from 1 February to 15 March and to WS from 1 June to 20 August allocations varied according to rule curve for other periods.</p> <p>2/ 0% of Reservoir Length starts at Dam-Deposition Total 194.8 Ac. Ft.</p> <p>3/ 0% Crabtree Reach starts at confluence with Savage River -</p> <p>* Constructed by W.P.A. &amp; Corps of Engineers<br/>Operated under general supervision of Corps of Engineers</p> |   |            |                |            |            |                       |                |          |       |        |      |      |      |      |      |
| 48. AGENCY SUPPLYING DATA   |   |            |                |            |            | 49. DATE 15 June 1956 |                |          |       |        |      |      |      |      |      |
| USDA, Soil Conservation Service   |   |            |                |            |            |                       |                |          |       |        |      |      |      |      |      |