

RESERVOIR SEDIMENT  
DATA SUMMARY

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

SCS-34 Rev. 6-66

Polk Creek Site #6

NAME OF RESERVOIR

21-62

DATA SHEET NO.

|             |   |              |                                     |                                |   |  |                                  |                                  |                              |                                     |                             |  |  |
|-------------|---|--------------|-------------------------------------|--------------------------------|---|--|----------------------------------|----------------------------------|------------------------------|-------------------------------------|-----------------------------|--|--|
| DAM         | 1. OWNER S. A. Hall                             |              |                                     | 2. STREAM White Oak Run        |   |  | 3. STATE West Virginia           |                                  |                              |                                     |                             |  |  |
|             | 4. SEC. TWP. RANGE                              |              |                                     | 5. NEAREST P.O. Weston         |   |  | 6. COUNTY Lewis                  |                                  |                              |                                     |                             |  |  |
|             | 7. LAT. 39° 03' 08" LONG. 80° 33' 08"           |              |                                     | 8. TOP OF DAM ELEVATION 1023.4 |   |  | 9. SPILLWAY CREST ELEV. 1115.5   |                                  |                              |                                     |                             |  |  |
| RESERVOIR   | 10. STORAGE ALLOCATION                          |              | 11. ELEVATION TOP OF POOL           |                                | 12. ORIGINAL SURFACE AREA, ACRES                                      |  | 13. ORIGINAL CAPACITY, ACRE-FEET |                                  | 14. GROSS STORAGE, ACRE-FEET |                                     | 15. DATE STORAGE BEGAN      |  |  |
|             | a. FLOOD CONTROL                                |              | 1120.7                              |                                | 11.0  |  | 105.5                            |                                  | 116.5                        |                                     |                             |  |  |
|             | b. MULTIPLE USE                                 |              |                                     |                                |   |  |                                  |                                  |                              |                                     | 9/1/65                      |  |  |
|             | c. POWER  |              |                                     |                                |   |  |                                  |                                  |                              |                                     | 16. DATE NORMAL OPER. BEGAN |  |  |
|             | d. WATER SUPPLY                                 |              |                                     |                                |   |  |                                  |                                  |                              |                                     |                             |  |  |
|             | e. IRRIGATION                                   |              |                                     |                                |   |  |                                  |                                  |                              |                                     |                             |  |  |
|             | f. CONSERVATION                                 |              |                                     |                                |   |  |                                  |                                  |                              |                                     |                             |  |  |
|             | g. INACTIVE                                     |              | 1098.5                              |                                | 2.4   |  | 11.0                             |                                  | 11.0                         |                                     | 9/1/65                      |  |  |
| WATERSHED   | 17. LENGTH OF RESERVOIR (0.16) MILES            |              |                                     |                                | AV. WIDTH OF RESERVOIR (0.11) MILES                                   |  |                                  |                                  |                              |                                     |                             |  |  |
|             | 18. TOTAL DRAINAGE AREA 0.47 SQ. MI.            |              |                                     |                                | 22. MEAN ANNUAL PRECIPITATION 48.0 <sup>1</sup> / <sub>1</sub> INCHES |  |                                  |                                  |                              |                                     |                             |  |  |
|             | 19. NET SEDIMENT CONTRIBUTING AREA 0.47 SQ. MI. |              |                                     |                                | 23. MEAN ANNUAL RUNOFF 19.0 <sup>1</sup> / <sub>1</sub> INCHES        |  |                                  |                                  |                              |                                     |                             |  |  |
|             | 20. LENGTH 1.04 MILES                           |              | AV. WIDTH 0.45 MILES                |                                | 24. MEAN ANNUAL RUNOFF 476 AC.-FT.                                    |  |                                  |                                  |                              |                                     |                             |  |  |
|             | 21. MAX. ELEV. 1560'                            |              | MIN. ELEV. 1087                     |                                | 25. ANNUAL TEMP.: MEAN RANGE  |  |                                  |                                  |                              |                                     |                             |  |  |
| 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/I. RATIO, AC.-FT. PER AC.-FT. |                             |  |  |
|             | 9/1/65  |              | -                                   | -                              | -   | -  | 11.0<br>(2.4)                    | 116.5<br>(11.0)                  |                              | 0.245                               |                             |  |  |
|             | 4/6/71  |              | 5.7                                 | 5.7                            | Range   | 7  | 11.0<br>(2.4)                    | 110.42<br>(9.52)                 |                              | 0.23                                |                             |  |  |
|             | 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                    |                             |  |  |
|             | 4/6/71  |              | 48                                  |                                | 476   |  | 2713                             | 476                              |                              | 2713                                |                             |  |  |
|             | 26. DATE OF SURVEY                              |              | 37. PERIOD CAPACITY LOSS, 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              |                              |                                     |                             |  |  |
|             | 4/6/71  |              | [3.6]<br>(1.48)<br>5.08*            | [.63]<br>(.26)<br>.89*         | [1.34]<br>(.55)<br>1.89*  | [3.6]<br>(1.48)<br>5.08*                   | [.63]<br>(.26)<br>.89*           | [1.34]<br>(.55)<br>1.89*         |                              |                                     |                             |  |  |
|             | 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. ANN.                    | b. TOT. TO DATE   | a. PERIOD                                  | b. TOT. TO DATE                  |                                  |                              |                                     |                             |  |  |
| 4/6/71      |   | [72]<br>(60) | [2101]<br>(719)<br>2820*            | [2101]<br>(719)<br>2820*       | [.59]<br>(2.36)<br>.76*   | [3.46]<br>(13.55)<br>4.4*                  |                                  |                                  |                              |                                     |                             |  |  |

[ ] Flood pool only  
( ) Sediment pool only  
\* Total

|  |   |            |                 |            |            |            |                             |          |       |        |      |      |      |      |      |
|--|---|------------|-----------------|------------|------------|------------|-----------------------------|----------|-------|--------|------|------|------|------|------|
| 26. DATE OF SURVEY   | 43. DEPTH DESIGNATION RANGE IN FEET BELOW, AND ABOVE, CREST ELEVATION |            |                 |            |            |            |                             |          |       |        |      |      |      |      |      |
|  | 97-98   | 95-97      | 93-95           | 91-93      | 89-91      | 87-89      | (Add 1000 feet to readings) |          |       |        |      |      |      |      |      |
|  | PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION            |            |                 |            |            |            |                             |          |       |        |      |      |      |      |      |
| 4/6/71   | (28)  | (28)       | (27)            | (9)        | (4)        | (4)        |                             |          |       |        |      |      |      |      |      |
| 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            |            |                 |            |            |            |                             |          |       |        |      |      |      |      |      |
| 4/6/71 <sup>2/</sup>   | (2)   | (7)        | (9)             | (14)       | (7)        | (7)        | (9)                         | (14)     | (15)  | (16)   |      |      |      |      |      |
| 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 |       |        |      |      |      |      |      |
| (Original Capacity)  |   |            |                 |            |            |            |                             |          |       |        |      |      |      |      |      |
| 1098.5   |   | 11.0 AF    |                 |            |            |            |                             |          |       |        |      |      |      |      |      |
| 1097   |   | 7.5        |                 |            |            |            |                             |          |       |        |      |      |      |      |      |
| 1095   |   | 5.0        |                 |            |            |            |                             |          |       |        |      |      |      |      |      |
| 1093   |   | 2.0        |                 |            |            |            |                             |          |       |        |      |      |      |      |      |
| 1091   |   | 1.0        |                 |            |            |            |                             |          |       |        |      |      |      |      |      |
| 47. REMARKS AND REFERENCES   |   |            |                 |            |            |            |                             |          |       |        |      |      |      |      |      |
| <u>1/</u> From general hydrologic data<br><u>2/</u> Proceeding upstream<br><br>Land use: 50% pasture, 39% forest, 4% perm. hay, 7% strip mine<br>Soils: Upshur-Muskingum uplands, Atkins-Melvin flood plain<br>Geology: 30% Monongahela Group, 70% Conemaugh |   |            |                 |            |            |            |                             |          |       |        |      |      |      |      |      |
| 48. AGENCY MAKING SURVEY   |   |            |                 |            |            |            |                             |          |       |        |      |      |      |      |      |
| 49. AGENCY SUPPLYING DATA      Soil Conservation Service   |   |            |                 |            |            |            |                             |          |       |        |      |      |      |      |      |
| 50. DATE      9/21/71  |   |            |                 |            |            |            |                             |          |       |        |      |      |      |      |      |