

RESERVOIR SEDIMENTATION
DATA SUMMARY

Hinckston Run Reservoir

NAME OF RESERVOIR

21-4

DATA SHEET NO.

3-15

| | | | | | | | | |
|-----------------------|---------------------------------------------------------|-----------------------------------------|------------------------------------|--------------------------------------|---------------------------------------------|-------------------------------------|---------------------------------|-----------------------------------|
| DAM | 1. OWNER Manufacturers Water Co. | | | 2. RIVER Hinckston Run | | 3. STATE Pennsylvania | | |
| | 4. SEC. - TWP. - RANGE - | | | 5. NEAREST TOWN Johnstown | | 6. COUNTY Cambria | | |
| | 7. STREAM BED ELEV. 1322 | | | 8. TOP OF DAM ELEV. | | 9. SPILLWAY CREST ELEV. 1395 | | |
| 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 | | | | | 1905 | | |
| | b. POWER | | | | | | | |
| | c. WATER SUPPLY | 1395 | 120 | 3453 | 3453 | 16. DATE NORMAL OPER. BEGAN | | |
| | d. IRRIGATION | | | | | | | |
| | e. CONSERVATION | | | | | | | |
| | f. INACTIVE | | | | | 1905 | | |
| WATERSHED | 17. LENGTH OF RESERVOIR Approx. 1 MILES | | | AV. WIDTH OF RESERVOIR MILES | | | | |
| | 18. TOTAL DRAINAGE AREA 10.75 SQ. MI. | | | 22. MEAN ANNUAL PRECIPITATION INCHES | | | | |
| | 19. NET SEDIMENT CONTRIBUTING AREA 10.57 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. |
| | 1905 | - | - | - | - | 120 | 3453 | 321 |
| | Sept. 30, 1937 | 32 | 32 | Recon. | 13 meas. | 120 | 3315 | 308 |
| | 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 | |
| | Sept. 30, 1937 | 138 | 4.31 | .408 | 138 | 4.31 | .408 | |
| | 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 | | |
| Sept. 30, 1937 | 60 * | 533 | 533 | .12 | 4.0 | | | |

* Assumed

| | | | | | | | | | | | | | | |
|-----------------------|-----------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 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

Region 1, Soil Conservation Service
U. S. Department of Agriculture

48. AGENCY SUPPLYING DATA Upper Darby, Pennsylvania

49. DATE July 1950