

RESERVOIR SEDIMENTATION
DATA SUMMARY

Condit (White Salmon)

NAME OF RESERVOIR

74-1

DATA SHEET NO.

Columbia R basalt
& Q Volcanics

| | | | | | | | | |
|-------------------------|--|---|------------------------------------|------------------------------|---|---------------------------------|-------------------------|--|
| DAM | 1. OWNER Northwestern Elec. Power | | | 2. RIVER White Salmon | | 3. STATE Washington | | |
| | 4. SEC. 3 TWP. 3N RANGE 10E | | 5. NEAREST TOWN Underwood | | | 6. COUNTY Klickitat | | |
| | 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 | | | | | 1913 <u>1/</u> | | |
| | b. POWER | | 97 | 1,081 | 1,081 | | | |
| | c. WATER SUPPLY | | | | | 16. DATE NORMAL OPER. BEGAN | | |
| | d. IRRIGATION | | | | | 1913 | | |
| | e. CONSERVATION | | | | | | | |
| | f. INACTIVE | | | | | | | |
| 17. LENGTH OF RESERVOIR | | | | MILES | AV. WIDTH OF RESERVOIR | | | |
| WATERSHED | 18. TOTAL DRAINAGE AREA 337 | | | SQ. MI. | 22. MEAN ANNUAL PRECIPITATION 35-95 | | | |
| | 19. NET SEDIMENT CONTRIBUTING AREA 337 | | | SQ. MI. | 23. MEAN ANNUAL RUNOFF | | | |
| | 20. LENGTH | | MILES | AV. WIDTH | | MILES | 24. MEAN ANNUAL RUNOFF | |
| | 21. MAX. ELEV. | | MIN. ELEV. | | 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. |
| 1913 | - | - | - | - | 97 | 1,081 | 3.21 | |
| May 13, 1936 | 23 | 23 | Recon. | 19 meas. | 97 | 1,054 | 3.13 | |
| 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. | | | |
| May 13, 1936 | a. PERIOD TOTAL | b. AV. ANNUAL | c. PER SQ. MI.- YEAR | a. TOTAL TO DATE | b. AV. ANNUAL | c. PER SQ. MI.- YEAR | | |
| May 13, 1936 | 27 | 1.2 | 0.004 | 27 | 1.2 | 0.004 | | |
| 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 | |
| May 13, 1936 | | | | 0.11 | 2.54 | | | |

1/ Dam raised 5 feet in 1927

| | | | | | | | | | | | | | | |
|-----------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 26. DATE OF SURVEY | 43. DEPTH DESIGNATION RANGE IN FEET ABOVE, AND BELOW, CREST ELEVATION | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

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

| 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
 Gottschalk, L.C. Notes on reservoir silting and suspended-load measurements in Washington. U.S. Soil Conserv. Serv., Special Report No. 2, 15 pp., illus., processed., Washington, D. C., October 1942.

Region 7, Soil Conservation Service
 U. S. Department of Agriculture
 Portland, Oregon

48. AGENCY SUPPLYING DATA _____ 49. DATE July 13, 1950