

R intrusives
 Miocene Sediments

RESERVOIR SEDIMENTATION
 DATA SUMMARY

Miller Smeed Pond

NAME OF RESERVOIR

78-8

DATA SHEET NO.

| | | | | | | | | | | | | |
|-------------|---|-----|---|------------------------------------|---|---|-------------------------|---------------------------------|-----------------------------------|--|----------------------------|--|
| DAM | 1. OWNER Miller Smeed | | | 2. RIVER Little Willow Creek | | | 3. STATE Idaho | | | | | |
| | 4. SEC. 8 TWP. 8N RANGE 3W. | | | 5. NEAREST TOWN Payette | | | 6. COUNTY Payette | | | | | |
| | 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 | | | | | | | | | | 1945 | |
| | b. POWER | | | | | | | | | | | |
| | c. WATER SUPPLY | | | | 0.75 | | 2.90 | | 2.90 | | 16. DATE NORMAL OPER BEGAN | |
| | d. IRRIGATION | | | | | | | | | | | |
| | e. CONSERVATION | | | | | | | | | | | |
| | f. INACTIVE | | | | | | | | | | 1945 | |
| WATERSHED | 17. LENGTH OF RESERVOIR .03 MILES | | | | AV. WIDTH OF RESERVOIR .03 MILES | | | | | | | |
| | 18. TOTAL DRAINAGE AREA .218 SQ. MI. | | | | 22. MEAN ANNUAL PRECIPITATION 11 INCHES | | | | | | | |
| | 19. NET SEDIMENT CONTRIBUTING AREA .217 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 Semi-arid | | | | | | | |
| 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. | | | |
| | 1945 | | - | - | - | - | 0.75 | 2.90 | 13.3 | | | |
| | 9/10/51 | | 6 | 6 | Range Detailed | 2 | 0.75 | 2.71 | 12.4 | | | |
| | 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 | | | | |
| | 9/10/51 | | .19 | 0.032 | 0.147 | .19 | 0.032 | 0.147 | | | | |
| | 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 | c. PERIOD | d. TOT. TO DATE | | | | |
| 9/10/51 | | 70* | 224 | 224 | 1.10 | 6.55 | - | - | | | | |

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

| 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

*Assumed

Flaxman, E. M. and Hobba, R. L. "Some Factors Affecting Rates of Sedimentation in the Columbia River Basin", March 1954, 20 pp., illus. Being processed for publication.