

RESERVOIR SEDIMENTATION
DATA SUMMARY

Big Gin

43-2

NAME OF RESERVOIR

DATA SHEET NO.

| DAM | 1. OWNER USDI - BLM | | 2. RIVER Trib. to Fifteen- Mile Cr. | | 3. STATE Wyoming | | | |
|--------------------|---|---|--|------------------------|---|---------------------------------|-------------------------|----------------------------------|
| | 4. SEC. 6 TWP. 47N RANGE 93W | | 5. NEAREST TOWN Worland | | 6. COUNTY Washakie | | | |
| | 7. STREAM BED ELEV. 82.00* | | 8. TOP OF DAM ELEV. 103.2* | | 9. SPILLWAY CREST ELEV. 100.00* | | | |
| 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 | | | | | | | |
| | b. POWER | | | | | | | |
| | c. WATER SUPPLY | | | | | | | |
| | d. IRRIGATION | | | | | 16. DATE NORMAL OPER. BEGAN | | |
| | e. CONSERVATION | 100.00* | 15.2 | 99.2 | 99.2 | April 1954 | | |
| f. INACTIVE | | | | | | | | |
| WATERSHED | 17. LENGTH OF RESERVOIR 0.33 MILES | | 18. AV. WIDTH OF RESERVOIR .09 MILES | | | | | |
| | 19. TOTAL DRAINAGE AREA .212 SQ. MI. | | 20. MEAN ANNUAL PRECIPITATION 8.2 (Worland) INCHES | | | | | |
| | 21. NET SEDIMENT CONTRIBUTING AREA .918 SQ. MI. | | 22. MEAN ANNUAL RUNOFF 0.51 INCHES | | | | | |
| | 23. LENGTH 1.5 (approx) MILES | | 24. AV. WIDTH .6 MILES | | 25. MEAN ANNUAL RUNOFF 25.4 AC- FT. | | | |
| | 26. MAX. ELEV. 1360 | | 27. MIN. ELEV. 1240 | | 28. CLIMATIC CLASSIFICATION arid | | | |
| SURVEY DATA | 29. DATE OF SURVEY | 30. PERIOD YEARS | 31. ACCL. YEARS | 32. TYPE OF SURVEY | 33. NO. OF RANGES OR CONTOUR INT. | 34. SURFACE AREA ACRES | 35. CAPACITY ACRE- FEET | 36. %W RATIO AC- FT. PER SQ. MI. |
| | Oct. 3, 1954 | | | Topo. | 2.0 ft. | 15.2 | 99.2 | 105 |
| | Oct. 25, 1955 | 1 | 1 | Detailed | 2.0 | 15.2 | 98.1 | 104 |
| | Oct. 10, 1958 | 3 | 4 | | 2.0 | 15.2 | 96.0 | 102 |
| | Oct. 15, 1961 | 3 | 7 | | 2.0 | 15.2 | 93.2 | 99 |
| | 29. DATE OF SURVEY | 30. PERIOD ANNUAL PRECIPITATION | 31. PERIOD WATER INFLOW ACRE- FEET | | | 32. WATER INFL. TO DATE AC- FT. | | |
| | | | a. MEAN ANNUAL | b. MAX. ANNUAL | c. PERIOD TOTAL | d. MEAN ANNUAL | e. TOTAL TO DATE | |
| | Oct. 25, 1955 | - | 28.4 | 28.4 | 28.4 | 28.4 | 28.4 | |
| | Oct. 10, 1958 | - | 11.9 | 19.5 | 35.7 | 16.0 | 64.1 | |
| | Oct. 15, 1961 | - | 38.0 | 43.0 | 113.9 | 25.4 | 178.0 | |
| | 29. DATE OF SURVEY | 30. PERIOD SEDIMENT DEPOSITS ACRE- FEET | | | 31. TOTAL SED. DEPOSITS TO DATE ACRE- FEET. | | | |
| | | a. PERIOD TOTAL | b. AV. ANNUAL | c. PER SQ. MI- YEAR | d. TOTAL TO DATE | e. AV. ANNUAL | f. PER SQ. MI- YEAR | |
| Oct. 25, 1955 | 1.1 | 1.1 | 1.2 | 1.1 | 1.1 | 1.2 | | |
| Oct. 10, 1958 | 2.1 | .7 | .8 | 3.2 | .8 | .9 | | |
| Oct. 15, 1961 | 2.8 | .9 | 1.0 | 6.0 | .86 | .9 | | |
| 29. DATE OF SURVEY | 30. AV. DRY WGT. LBS. PER CU. FT. | 31. SED. DEP. TONS PER SQ. MI.- YR. | | 32. STORAGE LOSS PCT. | | 33. SED. INFLOW PPM | | |
| | | a. PERIOD | b. TOTAL TO DATE | c. AV. ANNUAL | d. TOT. TO DATE | e. PERIOD | f. TOT. TO DATE | |
| Oct. 25, 1955 | - | - | - | 1.1 | 1.1 | - | - | |
| Oct. 10, 1958 | - | - | - | .8 | 3.2 | - | - | |
| Oct. 15, 1961 | - | - | - | .9 | 6.1 | - | - | |

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|--|---|--|--|--|--|--|--|--|--|--|--|--|
| 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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|--|---|-------|-------|-------|-------|-------|-------|-------|-------|--------|------|------|------|------|
| 28. 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

Data for 1954 given in U. S. Geological Survey Water Supply Paper 1475-A

48. AGENCY SUPPLYING DATA U. S. Geological Survey
Water Resources Division

49. DATE April 25, 1962