

RESERVOIR SEDIMENT
DATA SUMMARY

"D" Creek Sediment Dam

NAME OF RESERVOIR

78-21

DATA SHEET NO

| | | | | | | |
|-------------|--|--|---|--|---|--|
| DAM | 1. OWNER USDA Forest Service | | 2. STREAM Trib. of Silver Cr | | 3. STATE Idaho | |
| | 4. SEC 17 WP 12N RANGE 6E | | NEAREST TOWN Cascade 17 NW | | 5. COUNTY Valley | |
| | 7. LAT 44° 22' LONG 115° 47' | | ELEV OF DAM 4805 | | 8. SPILLWAY CRIST ELEV 4804 | |
| RESERVOIR | 10. STORAGE ALLOCATION | | 11. SURFACE AREA ACRES | | 12. GROSS STORAGE, AC-FT | |
| | 13. FLOOD CONTROL | | 14. MULTIPLE USE | | 15. DATE STORAGE BEGAN 9/30/64 | |
| | 16. POWER | | 17. WATER SUPPLY | | 18. DATE NORMAL OPER BEGAN | |
| | 19. IRRIGATION | | 20. CONSERVATION | | 21. INACTIVE N.A. 1/ | |
| | 22. LENGTH OF RESERVOIR 0.0057 | | 23. MILES AV WIDTH OF RESERVOIR 0.0031 | | 24. MILLS | |
| | 25. TOTAL DRAINAGE AREA .47 | | 26. SQ M | | 27. MEAN ANNUAL PRECIPITATION 37.3 | |
| | 28. NET SEDIMENT CONTRIBUTING AREA .47 | | 29. SQ M | | 30. MEAN ANNUAL RUNOFF | |
| | 31. LENGTH 1.44 MILES | | 32. AV WIDTH .32 MILES | | 33. MEAN ANNUAL RUNOFF AC-FT | |
| WATERSHED | 34. MAX ELEV 6778 | | 35. MIN ELEV 4800 | | 36. ANNUAL TEMP. MEAN RANGE | |
| | 37. DATE OF SURVEY | | 38. PERIOD YEARS | | 39. AGE YEARS | |
| SURVEY DATA | 40. DATE OF SURVEY | | 41. PERIOD WATER INFLOW, AC-FT | | 42. WATER INFL TO DATE, AC-FT | |
| | 43. PERIOD ANNUAL PRECIPITATION | | 44. PERIOD ANNUAL | | 45. PERIOD ANNUAL | |
| | 46. DATE OF SURVEY | | 47. PERIOD CAPACITY LOSS, AC-FT | | 48. TOTAL SED. DEPOSITS TO DATE, AC-FT | |
| | 49. PERIOD TOTAL | | 50. A. ANNUAL | | 51. PERIOD TOTAL | |
| | 52. DATE OF SURVEY | | 53. PERIOD CAPACITY LOSS, AC-FT | | 54. TOTAL SED. DEPOSITS TO DATE, AC-FT | |
| | 55. PERIOD TOTAL | | 56. A. ANNUAL | | 57. PERIOD TOTAL | |
| | 58. DATE OF SURVEY | | 59. PERIOD CAPACITY LOSS, AC-FT | | 60. TOTAL SED. DEPOSITS TO DATE, AC-FT | |
| | 61. PERIOD TOTAL | | 62. A. ANNUAL | | 63. PERIOD TOTAL | |
| | 64. DATE OF SURVEY | | 65. PERIOD CAPACITY LOSS, AC-FT | | 66. TOTAL SED. DEPOSITS TO DATE, AC-FT | |
| | 67. PERIOD TOTAL | | 68. A. ANNUAL | | 69. PERIOD TOTAL | |

| | | | | | | | | | | | | |
|--|---|------------|------------------|------------------|------------|------------|------------------|------------------|--|--|--|--|
| 26. DATE OF SURVEY | 43. DEPTH DESIGNATION RANGE IN FEET BELOW AND ABOVE CREST ELEVATION | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION | | | | | | | | | | | |
| | | | | | | | | | | | | |
| 27. DATE OF SURVEY | 44. REACH DESIGNATION RANGE IN FEET BELOW AND ABOVE CREST ELEVATION | | | | | | | | | | | |
| | LENGTH OF REACH (FOOT) | | | | | | | | | | | |
| | PERCENT OF TOTAL SEDIMENT LOCATED WITHIN REACH DESIGNATION | | | | | | | | | | | |
| | | | | | | | | | | | | |
| 45. RANGE IN RESERVOIR OPERATIONS | | | | | | | | | | | | |
| WATER YEAR | MAX. ELEV. | MIN. ELEV. | INFL. & AC. FEET | TA. CAP. CU. FT. | MAX. ELEV. | MIN. ELEV. | INFL. & AC. FEET | TA. CAP. CU. FT. | | | | |
| | | | | | | | | | | | | |
| 46. ELEVATION AREA CAPACITY DATA | | | | | | | | | | | | |
| ELEVATION | AREA | CAPACITY | ELEVATION | AREA | CAPACITY | ELEVATION | AREA | CAPACITY | | | | |
| | | | | | | | | | | | | |
| 47. REMARKS AND REFERENCES | | | | | | | | | | | | |
| <p><u>1/</u> Pond used to collect bedload sediment and organic matter</p> | | | | | | | | | | | | |
| 48. AGENCY MAKING SURVEY Intermountain Forest & Range Exp. Sta. | | | | | | | | | | | | |
| 49. AGENCY SUPPLYING DATA Intermountain Forest & Range Exp. Sta. DATE 10/12/71 | | | | | | | | | | | | |

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|---|---|------------|-----------------|------------|------------|------------|-----------------|----------|-------|--------|------|----------------|------|------|------|
| 26. DATE OF SURVEY | 43. DEPTH DESIGNATION RANGE IN FEET BELOW, AND ABOVE, 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 | -125 |
| | 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 | | | | | | | | | | | | | | | |
| <p><u>1/</u> Pond used to collect bedload sediment and organic matter</p> <p><u>2/</u> Pond is emptied after every survey</p> | | | | | | | | | | | | | | | |
| 48. AGENCY MAKING SURVEY | | | | | | | | | | | | | | | |
| 49. AGENCY SUPPLYING DATA | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | 50. DATE _____ | | | |

RESERVOIR SEDIMENT
DATA SUMMARY

"D" Creek (Cont)

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

SCS-34 Rev. 6-66

NAME OF RESERVOIR

78-21

DATA SHEET NO.

| | | | | | | | |
|--------------------------------|--|-------------------------------------|------------------------------------|----------------------------------|--|----------------------------------|-------------------------|
| DAM | 1. OWNER USDA Forest Service | | 2. STREAM Trib. of Silver Cr. | | 3. STATE Idaho | | |
| | 4. SEC. 17 TWP. 12N RANGE 6E | | 5. NEAREST P.O. Cascade 17 NW | | 6. COUNTY Valley | | |
| | 7. LAT 44° 22' " LONG. 115° 47' " | | 8. TOP OF DAM ELEVATION 4805 | | 9. SPILLWAY CREST ELEV. 4804 | | |
| 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 | | | | | 9/30/64 | |
| | b. MULTIPLE USE | | | | | | |
| | c. POWER | | | | | | |
| | d. WATER SUPPLY | | | | | | |
| | e. IRRIGATION | | | | | 15. DATE NORMAL OPER. BEGAN | |
| | f. CONSERVATION | | | | | | |
| | g. INACTIVE | N.A. | 1/ | 0.011 | | 0.017 | 9/30/64 |
| 17. LENGTH OF RESERVOIR 0.0057 | | MILES | | AV. WIDTH OF RESERVOIR 0.0031 | | MILES | |
| WATERSHED | 18. TOTAL DRAINAGE AREA .47 | | SQ. MI. | | 22. MEAN ANNUAL PRECIPITATION 37.3 | | INCHES |
| | 19. NET SEDIMENT CONTRIBUTING AREA .47 | | SQ. MI. | | 23. MEAN ANNUAL RUNOFF | | INCHES |
| | 20. LENGTH 1.44 | | MILES | | AV. WIDTH .32 | | MILES |
| | 21. MAX. ELEV. 6778 | | MIN. ELEV. 4800 | | 25. ANNUAL TEMP: MEAN | | RANGE |
| | 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 |
| 5/22/74 | 0.05 | 8.79 | R | 16M | 0.011 | 0.017 | |
| 10/2/74 | 0.36 | 9.15 | | | | | |
| 6/9/75 | 0.68 | 9.83 | | | | | |
| 10/10/75 | 0.33 | 10.16 | | | | | |
| 6/10/76 | 0.67 | 10.83 | | | | | |
| 10/21/76 | 0.36 | 11.19 | | | | | |
| 5/31/77 | 0.61 | 11.80 | | | | | |
| 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 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 |
| | 5/22/74 | 0.0044 | 0.0886 | 0.1890 | 2/ | | |
| | 10/2/74 | 0.0007 | 0.0020 | 0.0043 | | | |
| | 6/9/75 | 0.0106 | 0.0155 | 0.0332 | | | |
| | 10/10/75 | 0.0004 | 0.0013 | 0.0027 | | | |
| | 6/10/76 | 0.0067 | 0.0101 | 0.0215 | | | |
| 10/21/76 | 0.0001 | 0.0003 | 0.0007 | | | | |
| 5/31/77 | 0.0005 | 0.0007 | 0.0016 | | | | |
| 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. IN FLOW, PPM | |
| | | a. PERIOD | b. TOTAL TO DATE | a. AV. ANN. | b. TOT. TO DATE | a. PERIOD | b. TOT. TO DATE |
| 5/22/74 | 65.0 | | | | | | |
| 6/9/75 | 78.8 | | | | | | |
| 6/10/76 | 58.1 | | | | | | |

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|---|---|------------|-----------------|------------|------------|------------|-----------------|----------|-------|--------|------|------|------|------|
| 26. DATE OF SURVEY | 43. DEPTH DESIGNATION RANGE IN FEET BELOW, AND ABOVE, 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 | | | | | | | | | | | | | | |
| <p><u>1/</u> Pond used to collect bedload sediment and organic matter</p> <p><u>2/</u> Pond is emptied after every survey</p> | | | | | | | | | | | | | | |
| 48. AGENCY MAKING SURVEY | | | | | | | | | | | | | | |
| 49. AGENCY SUPPLYING DATA | | | | | | | | | | | | | | |
| 50. DATE _____ | | | | | | | | | | | | | | |

RESERVOIR SEDIMENT
DATA SUMMARY

SCS-34 Rev. 5-66

"D" Creek (Cont)

NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

78-21

DATA SHEET NO.

| | | | | | | | | | | | | | | | |
|--|-----------------------------------|-------------------------------------|---------------------------|-------------------------------------|----------------------------------|--|----------------------------------|------------------------------------|------------------------------|-------------------------|-----------------------------|-------------------------|--|-------------------------------------|--|
| DAM | 1. OWNER USDA Forest Service | | | 2. STREAM Trib. of Silver Cr. | | 3. STATE Idaho | | | | | | | | | |
| | 4. SEC. 17 TWP. 12N RANGE 6E | | | 5. NEAREST P.O. Cascade 17 NW | | 6. COUNTY Valley | | | | | | | | | |
| | 7. LAT 44° 22' " LONG. 115° 47' " | | | 8. TOP OF DAM ELEVATION 4805 | | 9. SPILLWAY CREST ELEV. 4804 | | | | | | | | | |
| 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 | | | | | | | | | | 9/30/64 | | | | |
| | b. MULTIPLE USE | | | | | | | | | | | | | | |
| | c. POWER | | | | | | | | | | | | | | |
| | d. WATER SUPPLY | | | | | | | | | | 16. DATE NORMAL OPER. BEGAN | | | | |
| | e. IRRIGATION | | | | | | | | | | | | | | |
| | f. CONSERVATION | | | | | | | | | | | | | | |
| g. INACTIVE | | N.A. 1/ | | 0.011 | | | | 0.017 | | 9/30/64 | | | | | |
| 17. LENGTH OF RESERVOIR 0.0057 | | | | MILES | | | | AV. WIDTH OF RESERVOIR 0.0031 | | | | MILES | | | |
| 18. TOTAL DRAINAGE AREA .47 | | | | SQ. MI. | | | | 22. MEAN ANNUAL PRECIPITATION 37.3 | | | | INCHES | | | |
| 19. NET SEDIMENT CONTRIBUTING AREA .47 | | | | SQ. MI. | | | | 23. MEAN ANNUAL RUNOFF | | | | INCHES | | | |
| 20. LENGTH 1.44 | | MILES | | AV. WIDTH .32 | | MILES | | 24. MEAN ANNUAL RUNOFF | | AC.-FT. | | | | | |
| 21. MAX. ELEV. 6778 | | | | MIN. ELEV. 4800 | | | | 25. ANNUAL TEMP: MEAN | | | | RANGE | | | |
| 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. | |
| 9/28/77 | | 0.33 | | 12.13 | | R | | 16M | | 0.011 | | 0.017 | | | |
| 5/20/78 | | 0.67 | | 12.80 | | | | | | | | | | | |
| 6/27/79 | | 1.07 | | 13.87 | | | | | | | | | | | |
| 11/17/79 | | 0.39 | | 14.26 | | | | | | | | | | | |
| 6/13/80 | | 0.57 | | 14.83 | | | | | | | | | | | |
| 10/9/80 | | 0.32 | | 15.15 | | | | | | | | | | | |
| 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 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 | | | |
| 9/28/77 | | 0.0005 | | 0.0015 | | 0.0032 | | 2/ | | | | | | | |
| 5/20/78 | | 0.0028 | | 0.0042 | | 0.0089 | | | | | | | | | |
| 6/27/79 | | 0.0011 | | 0.0010 | | 0.0021 | | | | | | | | | |
| 11/17/79 | | 0.0001 | | 0.0002 | | 0.0005 | | | | | | | | | |
| 6/13/80 | | 0.0165 | | 0.0289 | | 0.0616 | | | | | | | | | |
| 10/9/80 | | 0.0002 | | 0.0007 | | 0.0016 | | | | | | | | | |
| 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 | | | |
| 5/20/78 | | 55.0 | | | | | | | | | | | | | |

SURVEY DATA

| | | | | | | | | | | | | |
|--|---|--|--|--|--|--|--|--|--|--|--|--|
| 26. DATE OF SURVEY | 43. DEPTH DESIGNATION RANGE IN FEET BELOW, AND ABOVE, 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

1/ Pond used to collect bedload sediment and organic matter

2/ Pond is emptied after every survey

48. AGENCY MAKING SURVEY _____

49. AGENCY SUPPLYING DATA _____

50. DATE _____