

RESERVOIR SEDIMENT
DATA SUMMARY

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

SCS-34 Rev. 6-66

Sand-"H" Canyon Debris Basin

NAME OF RESERVOIR

66-13

DATA SHEET NO.

| | | | | | | | | | | | | | | | | |
|--|---|----------------------------|-------------------------------------|---|---|----------------|--|-----------------|-----------------------------------|----------------|-----------------------------|------------------|-------------------------|--|-------------------------------------|--|
| DAM | 1. OWNER Monroe City | | | 2. STREAM Sand Canyon | | | 3. STATE Utah | | | | | | | | | |
| | 4. SEC. 15 TWP. 25S. RANGE 3W. | | | 5. NEAREST P.O. Monroe | | | 6. COUNTY Sevier | | | | | | | | | |
| | 7. LAT 38° 35' - " LONG. 112° 5' - " | | | 8. TOP OF DAM ELEVATION 5,466 | | | 9. SPILLWAY CREST ELEV. 5,461 | | | | | | | | | |
| 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 | | 5,461 | | 14.8 | | 55.7 | | 136 | | 6/71 | | | | | |
| | b. MULTIPLE USE | | | | | | | | | | | | | | | |
| | c. POWER | | | | | | | | | | | | | | | |
| | d. WATER SUPPLY | | | | | | | | | | | | | | | |
| | e. IRRIGATION | | | | | | | | | | 16. DATE NORMAL OPER. BEGAN | | | | | |
| | f. CONSERVATION | | | | | | | | | | | | | | | |
| g. INACTIVE | | 5,457 | | 12.8 | | 80.3 | | 80.3 | | 6/71 | | | | | | |
| 17. LENGTH OF RESERVOIR 0.09 MILES | | | | | AV. WIDTH OF RESERVOIR 0.257 MILES | | | | | | | | | | | |
| 18. TOTAL DRAINAGE AREA 3.0 SQ. MI. | | | | 22. MEAN ANNUAL PRECIPITATION 10-18 INCHES | | | | | | | | | | | | |
| 19. NET SEDIMENT CONTRIBUTING AREA 2.98 SQ. MI. | | | | 23. MEAN ANNUAL RUNOFF 1/ 0.1* INCHES | | | | | | | | | | | | |
| 20. LENGTH 3.3 MILES | | AV. WIDTH 0.9 MILES | | 24. MEAN ANNUAL RUNOFF 16.0* AC.-FT. | | | | | | | | | | | | |
| 21. MAX. ELEV. 9,800 | | MIN. ELEV. 5,442 | | 25. ANNUAL TEMP: MEAN 49.4 RANGE -28° to 104° | | | | | | | | | | | | |
| WATERSHED | 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. | |
| | 6/71 10/71 | | -- 0.33 | | -- 0.33 | | --- Range R | | ---- 8 | | 14.8 14.8 | | 136.0 117.1 | | 8.5 7.3 | |
| | 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 | | | | |
| SURVEY DATA | 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 | | | |
| | 10/71 | | 18.9 | | 57.27 | | 19.24 | | 18.9 | | 57.27 | | 19.24 | | | |
| | 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 | | | | |
| 10/71 | | 80* | | 33,522 | | 33,522 | | 42.11 | | 13.9 | | | | | | |

*Estimated or Assumed

| | | | | | | | | | | | | | | | |
|---|---|------------|-----------------|------------|------------|------------|-----------------|----------|-------|--------|------|------|------|------|------|
| 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 | | | | | | | |
| | | | | | | | | | | | | | | | |
| <p>47. REMARKS AND REFERENCES <u>1</u>/ A mudrock flow occurred in July 1971 and a flash flood occurred in Aug. 1971. The mudrock flow contained approx. 25 ac. ft. of water, sediment and debris and the flash flood contained approx. 5 ac. ft. of water and sediment. No runoff has occurred since Aug. 1971. Runoff ranges from 0 inches in the valley to approx. 2 inches in the mountains.</p> <p><u>Geology</u>: Bullion Canyon volcanics are exposed on approx. 90% of the drainage. Latite flows, tuffs and breccias are the principal rock types. The other 10% of the drainage is covered by Quaternary alluvium and landslide deposits.</p> <p><u>Land Use</u>: Range, 90%; Woodland, 10%.</p> <p>48. AGENCY MAKING SURVEY Soil Conservation Service</p> <p>49. AGENCY SUPPLYING DATA Soil Conservation Service</p> <p style="text-align: right;">50. DATE <u>6/28/76</u></p> | | | | | | | | | | | | | | | |