RESERVOIR SEDIMENT DATA SUMMARY

SCS-34 Rev. 6-66

Choctaw Retention Reservoir

NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

ΰ3 − 25 DATA SHEET NO.

OWNER BLM Indian Wash STREAM 3. STATE Colorado 2. 4. SEC. 16 TWP. T IN RANGE R 1E NEAREST P.O.Grand Junction 6. COUNTY Mesa SPILLWAY CREST ELEV. 100.0* 26" LONG. 108 28' 48" 8. TOP OF DAM ELEVATION 105.1 LAT.39° 09′ 10. STORAGE 11. ELEVATION 12. ORIGINAL 13. ORIGINAL 14. GROSS STORAGE. 15. DATE ALLOCATION TOP OF POOL SURFACE AREA, ACRES CAPACITY. ACRE-FEET ACRE-FEET STORAGE BEGAN a. FLOOD CONTROL 1965 RVOIR b. MULTIPLE USE c. POWER 16. DATE NORd. WATER SUPPLY SE MAL OPER, BEGAN e, IRRIGATION 1965 f. CONSERVATION g. INACTIVE 100.0 5.22 32.5 32.5 17. LENGTH OF RESERVOIR 0.126 MILES AV. WIDTH OF RESERVOIR 0.065 MULES MEAN ANNUAL PRECIPITATION 8.41 (84 yr) 18 TOTAL DRAINAGE AREA SO. MI 22 INCHES WATERSH NET SEDIMENT CONTRIBUTING AREA 1.11 0.7 INCHES 19. SQ. MI 23. MEAN ANNUAL RUNOFF 20. LENGTH MILES AV. WIDTH 0.7 MILES 24. MEAN ANNUAL RUNOFF 41.8 AC.-F T. 1.6 ANNUAL TEMP: MEAN 52, 70 RANGE 21. MAX. ELEV. 6880 MIN. ELEV. 5225 25. 29. TYPE OF 30, NO. OF RANGES 31. SURFACE CAPACITY, 33. C/I. RATIO. 32. 26. DATE OF ACCL PERIOD SURVEY OR CONTOUR INT AREA, ACRES ACRE-FEET AC. FT. PER AC. FT. SURVEY YEARS YEARS 0.78 5.22 32.5 1965 October 1975 10 10 11 5.22 21.0 0.50 Range PERIOD 36. WATER INFL. TO DATE, AC.-FT. PERIOD WATER INFLOW, ACRE-FEET 26. DATE OF ANNUAL SURVEY MEAN ANNUAL b. TOTAL TO DATE PRECIPITATION a. MEAN ANNUAL b. MAX. ANNUAL c. PERIOD TOTAL DATA SURVE TOTAL SED. DEPOSITS TO DATE, ACRE-FEET PERIOD CAPACITY LOSS, ACRE-FEET 26. DATE OF SURVEY a. PERIOD TOTAL b. AV. ANNUAL c. PER SQ. MI. YEAR a, TOTAL TO DATE b. AV. ANNUAL c. PER SQ. MI.-YEAR 11.5 1.16 1.03 October 1975 11.56 1.15 1.03 Adding sed. Adding sed. Adding in diver. sediment in in diver. channel diversion channel 1.16 channel 13.02 1,30 39. AV. DRY WGT., 40.SED. DEP., TONS PERSQ. MI.-YR. 41.STORAGE LOSS, PCT. 42. SED. INFLOW, PPM 26. DATE OF LRS PER CIL ET SURVEY a. PERIOD b. TOTAL TO DATE a. AV. ANN b. TOT. TO DATE a. PERIOD b. TOT. TO DATE 35.4 October 1975 3.5

^{*} Assumed Elevation

26. DATE OF	43,	0	EPTH DE	SIGNA	TION F	RANGE	IN FEE	T BELC	W, ANI	D ABOV	E, CRE	ST ELE	OITAV	<u> </u>	
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47. REMARKS	AND REFE	RENCE	S												

The largest flood flow into the reservoir occurred on July 18, 1974, with water ponding to an estimated elevation of 97.6 feet. The flood water volume caught by the reservoir was 9.53 acre-feet.

An estimated 1.46 acre-feet of sediment was deposited in a channel diversion going into the reservoir.

Nine small dams above this reservoir caught approximately 100% of the sediment (sediment levels at or below the crest of the spillway) from a total drainage area of 0.69 sq. mi. (444 acres).

More than 66 very small gully plugs are estimated to have caught approximately 50% of the sediment from 0.18 sq. mi. (117 acres) of the drainage area of Choctaw Reservoir.

48. AGENCY MAKING SURVEY Soil Conservation Service 49. AGENCY SUPPLYING DATA Soil Conservation Service

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