

RESERVOIR SEDIMENT DATA SUMMARY

Kingsbury - Todd No.1

42-4

NAME OF RESERVOIR

Woman

DATA SHEET NO.

DAM	1. OWNER Elsom Brothers		2. STREAM Trib. N. Fk. Crazy		3. STATE Wyoming			
	4. SEC. 22 TWP. 49N RANGE 82W		5. NEAREST P.O. Buffalo 12 S		6. COUNTY Johnson			
	7. LAT. 44° 11' 47" LONG. 106° 43' 1"		8. TOP OF DAM ELEVATION 37.0		9. SPILLWAY CREST ELEV. 34.0			
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					Mar. 1912		
	b. MULTIPLE USE							
	c. POWER							
	d. WATER SUPPLY					16. DATE NORMAL OPER. BEGAN		
	e. IRRIGATION	34.0	23.25	219.54	219.62			
	f. CONSERVATION							
g. INACTIVE	5.0	0.03	0.08	0.08	0.08	Mar. 1912		
WATERSHED	17. LENGTH OF RESERVOIR 0.74 1/ MILES			AV. WIDTH OF RESERVOIR 0.05 MILES				
	18. TOTAL DRAINAGE AREA 1.60 2/ SQ. MI.			22. MEAN ANNUAL PRECIPITATION 13.11 3/ INCHES				
	19. NET SEDIMENT CONTRIBUTING AREA 1.60 2/ SQ. MI.			23. MEAN ANNUAL RUNOFF 1.0 INCHES				
	20. LENGTH 3.03 MILES		AV. WIDTH 0.53 MILES		24. MEAN ANNUAL RUNOFF 85.3 AC.-FT.			
	21. MAX. ELEV. 5800		MIN. ELEV. 5040		25. ANNUAL TEMP.: MEAN 45.4 RANGE -36 to 106			
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/I. RATIO, AC.-FT. PER AC.-FT.
	Mar. 1912	-	-		-	23.25	219.62	2.58 2/
	Mar. 14, 1988	76	76	Range (D)	8	23.25	163.33	1.92 2/
	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	
	Mar. 14, 1988	13.11 3/	-	-	-	-	-	-
	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	
	Mar. 14, 1988	56.29	0.74	0.46	56.29	0.74	0.46	
	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	
Mar. 14, 1988	77.5	776	776	0.3	25.6	-	-	

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

REMARKS AND REFERENCES

1/ Two principal arms - 0.47 and 0.27 miles.

2/ The reservoir is filled by a ditch which diverts water from Kelly Creek about 1.5 miles upstream of the dam.

3/ Buffalo, 1165: 43-year record.