

RESERVOIR SEDIMENT DATA SUMMARY

Basch

42-6

DATA SHEET NO.

NAME OF RESERVOIR

DAM	1. OWNER Richard Tass		2. STREAM Trib. of Muddy Cr.		3. STATE Wyoming	
	4. SEC. 32 TWP. 49N RANGE 82W		5. NEAREST P.O. Buffalo 129SE		6. COUNTY Johnson	
	7. LAT. 44° 10' 0" LONG. 106° 44' 33"		8. TOP OF DAM ELEVATION 105.0		9. SPILLWAY CREST ELEV. 100.0	
RESERVOIR	10. STORAGE ALLOCATION		11. ELEVATION TOP OF POOL		12. ORIGINAL SURFACE AREA, ACRES	
	a. FLOOD CONTROL					
	b. MULTIPLE USE					
	c. POWER					
	d. WATER SUPPLY					
	e. IRRIGATION		100.0		7.18	
	f. CONSERVATION				66.46	
	g. INACTIVE		73.0		0.11	
WATERSHED	13. ORIGINAL CAPACITY, ACRE-FEET		14. GROSS STORAGE, ACRE-FEET		15. DATE STORAGE BEGAN	
					Mar. 1956	
					16. DATE NORMAL OPER. BEGAN	
					Mar. 1956	
	17. LENGTH OF RESERVOIR 0.26 MILES		AV. WIDTH OF RESERVOIR 0.04 MILES			
	18. TOTAL DRAINAGE AREA 0.74 SQ. MI.		22. MEAN ANNUAL PRECIPITATION 13.11 INCHES			
	19. NET SEDIMENT CONTRIBUTING AREA 0.39 SQ. MI.		23. MEAN ANNUAL RUNOFF 1.0 INCHES			
20. LENGTH 2.65 MILES		AV. WIDTH 0.28 MILES		24. MEAN ANNUAL RUNOFF 20.8 AC.-FT.		
21. MAX. ELEV. 5540		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.			
	March 1956		-		-	
	Mar. 9, 1988		32		32	
	Range(D)		4		7.18	
					66.76	
					3.21 1/	
					7.18	
					56.09	
				2.70 1/		
26. DATE OF SURVEY		34. PERIOD ANNUAL PRECIPITATION		35. PERIOD WATER INFLOW, ACRE-FEET		
				a. MEAN ANNUAL		
Mar. 9, 1988		13.72		-		
				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		
Mar. 9, 1988		10.67		0.33		
		b. AV. ANNUAL		c. PER SQ. MI.-YEAR		
				a. TOTAL TO DATE		
				b. AV. ANNUAL		
				c. PER SQ. MI.-YEAR		
				10.67		
				0.33		
				-		
26. DATE OF SURVEY		39. AV. DRY WGT., LBS. PER CU. FT.		40. SED. DEP., TONS PER SQ. MI.-YR.		
				a. PERIOD		
Mar. 9, 1988		80.7		-		
				b. TOTAL TO DATE		
				a. AV. ANN.		
				b. TOT. TO DATE		
				a. PERIOD		
				b. TOT. TO DATE		
				0.5		
				16.0		
				-		
				-		

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/ This reservoir receives no surface runoff from the watershed area. It is surrounded by the PX ditch which intercepts any runoff and sediment. PX Ditch diverts water from Muddy Creek about 1,700 feet upstream of the dam and is used to fill the reservoir once each year.

2/ Buffalo, 1165: 43-year record.

48. AGENCY MAKING SURVEY Soil Conservation Service
 49. AGENCY SUPPLYING DATA Soil Conservation Service
 50. DATE March 2, 1993