

RESERVOIR SEDIMENT
DATA SUMMARY

SCS-34 Rev. 6-66

B-6

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

BOXELDER CREEK WATERSHED
NAME OF RESERVOIR

34-20

DATA SHEET NO.

DAM	1. OWNER North Poudre Irr. Co.		2. STREAM Sand Creek		3. STATE Colorado				
	4. SEC. 36 TWP. 12 N. RANGE 70 W.		5. NEAREST P.O. Wellington		6. COUNTY Larimer				
	7. LAT 40° 57' 45" LONG 105° 10' 10"		8. TOP OF DAM ELEVATION 6404.5		9. SPILLWAY CREST ELEV. 6397.5				
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	6397.5	65.6	1302.9	1548.9	Sept. 1977			
	b. MULTIPLE USE								
	c. POWER								
	d. WATER SUPPLY								
	e. IRRIGATION					16. DATE NORMAL OPER. BEGAN			
	f. CONSERVATION								
	g. INACTIVE	6364.3	19.6	246.0	246.0	Sept. 1977			
17. LENGTH OF RESERVOIR		0.64 MILES		AV. WIDTH OF RESERVOIR		0.16 MILES			
WATERSHED	18. TOTAL DRAINAGE AREA		16.6 SQ. MI.		22. MEAN ANNUAL PRECIPITATION		15 INCHES		
	19. NET SEDIMENT CONTRIBUTING AREA		15.0 SQ. MI.		23. MEAN ANNUAL RUNOFF		1 INCHES		
	20. LENGTH	8.3 MILES	AV. WIDTH	2.0 MILES	24. MEAN ANNUAL RUNOFF		885 AC.-FT.		
	21. MAX. ELEV. 8,146		MIN. ELEV. 6,398		25. ANNUAL TEMP: MEAN 48° 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.	
Sept. 1977	-	-	-	-	65.6	1548.9	1.75		
Nov. 1977	0.2	0.2	Range	35	65.6	1548.9	1.75		
July 1985	7.6	7.8	Range	35	65.6	1519.6	1.72		
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		
	Nov. 1977	-	-	-	-	-	-		
	July 1985	29.3	3.86	0.26	29.3	3.76	0.25		
	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		
	Nov. 1977								
July 1985			0.24	1.89					

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														
Largest inflow into reservoir occurred during summer of 1982, when 262 acre-feet of water ponded in the reservoir.														
48. AGENCY MAKING SURVEY				Soil Conservation Service										
49. AGENCY SUPPLYING DATA				Soil Conservation Service										
						50. DATE		January 1987						