

RESERVOIR SEDIMENT DATA SUMMARY

Fort Carson Reservoir 2
NAME OF RESERVOIR

48 - 12
DATA SHEET NO.

DAM	1. OWNER Fort Carson			2. STREAM Trib of Red Creek			3. STATE Colorado									
	4. SEC. 24 TWP. 18 S RANGE 68W			5. NEAREST P.O. Fort Carson			6. COUNTY Pueblo									
	7. LAT 38° 27' 47" LONG 104° 56' 46"			8. TOP OF DAM ELEVATION 96.0			9. SPILLWAY CREST ELEV. 91.1									
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										1957					
	b. MULTIPLE USE															
	c. POWER															
	d. WATER SUPPLY		91.1		1.16		2.13		2.13		16. DATE NORMAL OPER. BEGAN					
	e. IRRIGATION										1957					
	f. CONSERVATION															
	g. INACTIVE															
WATERSHED	17. LENGTH OF RESERVOIR				0.04 MILES		AV. WIDTH OF RESERVOIR				0.04 MILES					
	18. TOTAL DRAINAGE AREA				0.44 SQ. MI.		22. MEAN ANNUAL PRECIPITATION				11.0 INCHES					
	19. NET SEDIMENT CONTRIBUTING AREA				0.44 SQ. MI.		23. MEAN ANNUAL RUNOFF				0.4 INCHES					
	20. LENGTH		1.17 MILES		AV. WIDTH .38 MILES		24. MEAN ANNUAL RUNOFF				9.3 AC.-FT.					
	21. MAX. ELEV.		5560		MIN. ELEV. 5900		25. ANNUAL TEMP.: MEAN 52° RANGE 10° - 100° +									
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.	
	1957		-		-		-		-		1.16		2.13		0.2	
	July 1975		18		18		Range		11		1.16		0.08		-	
	Dec. 1980		5.4		23.4		Range		11		1.16		0.00		-	
	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			
	July 1975		2.05		0.11		0.26		2.05		0.11		0.26			
Dec. 1980		0.08		0.01		0.03		2.13		0.09		0.21				
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		
July 1975								5.3		96.2						
Dec. 1980								4.3		100						

Assumed Elevations

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							
47. REMARKS AND REFERENCES															
<p>1. In the December 1980 survey 0.50 acre-foot of sediment was measured above emergency spillway elevation (91.1).</p> <p>2. Probably less than half of sediment delivered to the reservoir has been trapped. The remainder has been carried through the emergency spillway.</p>															
48. AGENCY MAKING SURVEY Soil Conservation Service														50. DATE March 1981	
49. AGENCY SUPPLYING DATA Soil Conservation Service															

RESERVOIR SEDIMENT
DATA SUMMARY
SCS-34 Rev. 6-66

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

Fort Carson, Reservoir 2 (046-570)
NAME OF RESERVOIR

48-12a
DATA SHEET NO.

DAM	1. OWNER Fort Carson			2. STREAM Trib. of Red Crk			3. STATE Colorado									
	4. SEC. 24 TWP. 18S RANGE 68W			5. NEAREST P.O. Fort Carson			6. COUNTY Pueblo									
	7. LAT. 38° 27' 47" LONG. 104° 56' 46"			8. TOP OF DAM ELEVATION *96.0			9. SPILLWAY CREST ELEV. *94.2									
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										1957					
	b. MULTIPLE USE										16. DATE NORMAL OPER. BEGAN					
	c. POWER										1957					
	d. WATER SUPPLY		94.2													
	e. IRRIGATION															
	f. CONSERVATION															
	g. INACTIVE															
WATERSHED	17. LENGTH OF RESERVOIR				0.04 MILES		AV. WIDTH OF RESERVOIR				0.04 MILES					
	18. TOTAL DRAINAGE AREA				0.44 SQ. MI.		22. MEAN ANNUAL PRECIPITATION				11.0 INCHES					
	19. NET SEDIMENT CONTRIBUTING AREA				0.44 SQ. MI.		23. MEAN ANNUAL RUNOFF				0.4 INCHES					
	20. LENGTH		1.25 MILES		AV. WIDTH		0.33 MILES		24. MEAN ANNUAL RUNOFF		9.4 AC.-FT.					
	21. MAX. ELEV.		5920		MIN. ELEV.		5560		25. ANNUAL TEMP. MEAN 52° RANGE							
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.	
	July 1957						Range		11							
	Dec 1980		5.4		23.4		Range		11		0.95		1.24		0.13	
	April 1985		4.3		27.7		Range		11							
	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			
	July 1975								2.40		0.13		0.30			
Dec 1980								2.74		0.12		0.27				
April 1985								3.56		0.13		0.29				
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		

*Assumed Elevation

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							
47. REMARKS AND REFERENCES															
<p>NOTE: Original storage capacity of reservoir was about two acre-feet with emergency spillway at elevation 91.1. In November 1982, storage capacity was restored to about two acre-feet by extending dam across emergency spillway and making a new emergency spillway at 94.2 elevation. In 1973, two small erosion control reservoirs were built in the upper part of the drainage area and control 0.15 square mile of drainage. Most of sediment in Reservoir 2 comes from gully erosion.</p>															
48. AGENCY MAKING SURVEY				Soil Conservation Service											
49. AGENCY SUPPLYING DATA				Soil Conservation Service											
						50. DATE		May 1986							