

RESERVOIR SEDIMENT DATA SUMMARY

Fort Carson-Reservoir 5
NAME OF RESERVOIR

48 - 15
DATA SHEET NO.

DAM	1. OWNER Fort Carson		2. STREAM Trib. of Red Creek		3. STATE Colorado				
	4. SEC. 16 TWP. 17S RANGE 67W		5. NEAREST P.O. Fort Carson		6. COUNTY El Paso				
	7. LAT. 38° 33' 58" LONG. 104° 53' 55"		8. TOP OF DAM ELEVATION *100.0		9. SPILLWAY CREST ELEV. 95.1				
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					1950			
	b. MULTIPLE USE								
	c. POWER								
	d. WATER SUPPLY	95.1	3.10	19.64	19.64	16. DATE NORMAL OPER. BEGAN			
	e. IRRIGATION					1950			
	f. CONSERVATION								
	g. INACTIVE								
WATERSHED	17. LENGTH OF RESERVOIR 0.09 MILES		AV. WIDTH OF RESERVOIR 0.07 MILES						
	18. TOTAL DRAINAGE AREA 0.19 SQ. MI.		22. MEAN ANNUAL PRECIPITATION 14.0 INCHES						
	19. NET SEDIMENT CONTRIBUTING AREA 0.19 SQ. MI.		23. MEAN ANNUAL RUNOFF 0.5 INCHES						
	20. LENGTH 0.53 MILES		AV. WIDTH 0.38 MILES		24. MEAN ANNUAL RUNOFF 5.0 AC.-FT.				
	21. MAX. ELEV. 6600		MIN. ELEV. 6230		25. ANNUAL TEMP: MEAN 47° RANGE 20° - 90°+				
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.	
	1950	-	-	-		3.10	19.64	3.9	
	Oct. 1975	25	25	Range	12	3.10	17.35	3.4	
	Dec. 1980	5.2	30.2	Range	12	3.10	16.21	3.2	
	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		
	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		
	Oct. 1975	2.29	0.09	0.495	2.29	0.09	0.495		
Dec. 1980	1.14	0.22	1.184	3.43	0.11	0.613			
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		
Oct. 1975				0.5	11.7				
				0.6	17.5				

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															
48. AGENCY MAKING SURVEY				Soil Conservation Service				50. DATE <u>March 1981</u>							
49. AGENCY SUPPLYING DATA				Soil Conservation Service											

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

Fort Carson, Reservoir 5(087-683)
NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

48-15a
DATA SHEET NO.

DAM	1. OWNER Fort Carson			2. STREAM Trib. of Red Crk			3. STATE Colorado									
	4. SEC. 16 TWP. 17S. RANGE 67W.			5. NEAREST P.O. Fort Carson			6. COUNTY El Paso									
	7. LAT. 38° 33' 58" LONG. 104° 53' 55"			8. TOP OF DAM ELEVATION *100.00			9. SPILLWAY CREST ELEV. *95.1									
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										1950					
	b. MULTIPLE USE															
	c. POWER															
	d. WATER SUPPLY		95.1		3.10		19.70		19.70		16. DATE NORMAL OPER. BEGAN					
	e. IRRIGATION										1950					
	f. CONSERVATION															
	g. INACTIVE															
WATERSHED	17. LENGTH OF RESERVOIR 0.09 MILES			AV. WIDTH OF RESERVOIR 0.07 MILES												
	18. TOTAL DRAINAGE AREA 0.195 SQ. MI.			22. MEAN ANNUAL PRECIPITATION 14.0 INCHES												
	19. NET SEDIMENT CONTRIBUTING AREA 0.195 SQ. MI.			23. MEAN ANNUAL RUNOFF 0.5 INCHES												
	20. LENGTH 0.61 MILES AV. WIDTH 0.32 MILES			24. MEAN ANNUAL RUNOFF 5 AC.-FT.												
	21. MAX. ELEV. 6640 MIN. ELEV. 6260			25. ANNUAL TEMP MEAN 47° 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.	
	1950						Range		12		3.10		19.70		3.9	
	Oct 1975		25		25		Range		12		3.10		17.41		3.5	
	Dec 1980		5.2		30.2		Range		12		3.10		16.21		3.2	
	April 1985		4.3		34.5		Range		12		3.10		15.77		3.2	
	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			
	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			
Oct 1975		2.29		0.09		0.47		2.29		0.09		0.47				
Dec 1980		1.20		0.23		1.18		3.49		0.12		0.59				
April 1985		0.44		0.10		0.52		3.93		0.11		0.58				
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		
Oct 1975								0.5		11.6						
Dec 1980								0.6		17.7						
April 1985								0.6		19.9						

*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

Note: Two small erosion control reservoirs which were built in the upper part of the drainage area in 1977 store runoff and sediment from 0.055 square mile. Most of sediment delivered to Reservoir 5 is derived from gully erosion.

48. AGENCY MAKING SURVEY Soil Conservation Service
 49. AGENCY SUPPLYING DATA Soil Conservation Service
 50. DATE May 1986