

RESERVOIR SEDIMENT DATA SUMMARY

Fort Carson Reservoir 3  
NAME OF RESERVOIR

48 - 13  
DATA SHEET NO.

DAM	1. OWNER Fort Carson			2. STREAM Trib of Turkey Cree			3. STATE Colorado					
	4. SEC. 3 & 2 TWP. 19S RANGE 67W			5. NEAREST P.O. Fort Carson			6. COUNTY Pueblo					
	7. LAT. 38° 25' 23" LONG. 104° 52' 00"			8. TOP OF DAM ELEVATION *100.0			9. SPILLWAY CREST ELEV. 96.4					
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										1947	
	b. MULTIPLE USE											
	c. POWER											
	d. WATER SUPPLY		96.4		3.20		7.01		7.01		16. DATE NORMAL OPER. BEGAN	
	e. IRRIGATION											
	f. CONSERVATION											
	g. INACTIVE										1947	
WATERSHED	17. LENGTH OF RESERVOIR 0.06 MILES				AV. WIDTH OF RESERVOIR 0.09 MILES							
	18. TOTAL DRAINAGE AREA 0.34 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 11.0 INCHES							
	19. NET SEDIMENT CONTRIBUTING AREA 0.33 SQ. MI.				23. MEAN ANNUAL RUNOFF 0.4 INCHES							
	20. LENGTH 1.23 MILES		AV. WIDTH 0.27 MILES		24. MEAN ANNUAL RUNOFF 7.25 AC.-FT.							
	21. MAX. ELEV. 5600		MIN. ELEV. 5365		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.			
	1947		-	-	-	-	3.20	7.01	0.97			
	July 1975		28	28	Range	13	3.20	6.15	0.85			
	Oct. 1980		5.3	33.3	Range	16	3.20	5.97	0.82			
	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		0.86	0.03	0.09	0.86	0.03	0.09					
Oct. 1980		0.18	0.03	0.10	1.04	0.03	0.09					
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				
					0.4	12.2						
					0.4	14.8						

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	March 1981						
49. AGENCY SUPPLYING DATA				Soil Conservation Service											

RESERVOIR SEDIMENT  
DATA SUMMARY

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

Fort Carson, Reservoir 3(117-526)

SCS-34 Rev. 6-66

NAME OF RESERVOIR

48-13a

DATA SHEET NO.

DAM	1. OWNER Fort Carson		2. STREAM Trib Turkey Creek		3. STATE Colorado				
	4. SEC. 2,3 TWP. 19S. RANGE 67W.		5. NEAREST P.O. Fort Carson		6. COUNTY Pueblo				
	7. LAT 38° 25' 23" LONG. 104° 52' 00"		8. TOP OF DAM ELEVATION *100.0		9. SPILLWAY CREST ELEV. *96.4				
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					1947			
	b. MULTIPLE USE								
	c. POWER								
	d. WATER SUPPLY	96.4	3.20	6.97	6.97	16. DATE NORMAL OPER. BEGAN			
	e. IRRIGATION					1947			
	f. CONSERVATION								
	g. INACTIVE								
17. LENGTH OF RESERVOIR 0.06 MILES		AV. WIDTH OF RESERVOIR 0.09 MILES							
WATERSHED	18. TOTAL DRAINAGE AREA 0.34 SQ. MI.		22. MEAN ANNUAL PRECIPITATION 11.0 INCHES						
	19. NET SEDIMENT CONTRIBUTING AREA .034 SQ. MI.		23. MEAN ANNUAL RUNOFF 0.4 INCHES						
	20. LENGTH 1.23 MILES	AV. WIDTH 0.27 MILES	24. MEAN ANNUAL RUNOFF 7.0 AC.-FT.						
	21. MAX. ELEV. 5640		MIN. ELEV. 5365		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 1947					3.20	6.97	1.0	
	July 1975	28	28	Range	13	3.20	6.11	0.9	
	Oct. 1980	5.3	33.3	Range	16	3.20	5.99	0.9	
	April 1985	4.5	37.8	Range	16	3.20	5.92	0.8	
	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		0.86	0.03	0.09	0.86	0.03	0.09	
	Oct. 1980		0.12	0.02	0.07	0.98	0.03	0.09	
	April 1985		0.07	0.02	0.05	1.05	0.03	0.08	
	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					0.4	12.3			
Oct. 1980					0.4	14.1			
April 1985					0.4	15.1			

\*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															
49. AGENCY SUPPLYING DATA    Soil Conservation Service															
50. DATE <u>April 1986</u>															