

RESERVOIR SEDIMENT DATA SUMMARY
FPC-1

Fishers Peak-Carbon Arroyos Watershed

48 - 16

NAME OF RESERVOIR

DATA SHEET NO.

DAM	1. OWNER City of Trinidad		2. STREAM Fishers Peak Arroyo		3. STATE Colorado			
	4. SEC. 19 TWP. 33 S. RANGE 63W		5. NEAREST P.O. Trinidad		6. COUNTY Las Animas			
	7. LAT. 37° 09' 15" LONG. 104° 29' 45"		8. TOP OF DAM ELEVATION 6271.4		9. SPILLWAY CREST ELEV. 6266.4			
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	6266.4	12	317.7	346.3	Oct. 1963		
	b. MULTIPLE USE							
	c. POWER							
	d. WATER SUPPLY							
	e. IRRIGATION					16. DATE NORMAL OPER. BEGAN		
	f. CONSERVATION					Oct. 1963		
g. INACTIVE	6234.5	4	28.6	28.6				
WATERSHED	17. LENGTH OF RESERVOIR		0.2 MILES		AV. WIDTH OF RESERVOIR			
	18. TOTAL DRAINAGE AREA		1.14 SQ. MI.		0.09 MILES			
	19. NET SEDIMENT CONTRIBUTING AREA		1.12 SQ. MI.		22. MEAN ANNUAL PRECIPITATION			
	20. LENGTH 2.5 MILES		AV. WIDTH 0.5 MILES		23. MEAN ANNUAL RUNOFF			
	21. MAX. ELEV. 7,500		MIN. ELEV. 6,250		24. MEAN ANNUAL RUNOFF			
				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.
	Oct. 1963	-	-	-	-	12	346.3	8.1
	Feb. 1971	7.3	7.3	Range	21	12	333.4	7.8
	Nov. 1980	9.7	17.0	Range	21	12	328.5	7.7
	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	
	Feb. 1971	12.9	1.77	1.58	12.9	1.77	1.58	
Nov. 1980	4.9	0.50	0.45	17.8	1.05	0.94		
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	
Feb. 1971				0.51	3.73			
Nov. 1980				0.30	5.14			

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET BELOW, AND ABOVE, CREST ELEVATION									
PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION										

25. 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

The largest flood flows into the reservoir occurred on June 15, 1965, and again on June 17, 1965, when water ponded in the reservoir up to about one foot above the flow line in the riser. All flows during the period 1971 through 1980 ponded below the riser elevation.

48. AGENCY MAKING SURVEY Soil Conservation Service
 49. AGENCY SUPPLYING DATA Soil Conservation Service

50. DATE December 1980