

RESERVOIR SEDIMENT

FPC-1

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

DATA SUMMARY

Fishers Peak - Carbon Arroyos Watershed

SCS-34 Rev. 6-66

NAME OF RESERVOIR

48-10

DATA SHEET NO.

DAM	1. OWNER City of Trinidad		2. STREAM Fishers Peak Arroyo		3. STATE Colorado			
	4. SEC. 19 TWP. 33S. 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					16. DATE NORMAL OPER. BEGAN		
	e. IRRIGATION					Oct. 1963		
	f. CONSERVATION							
g. INACTIVE	6234.5	4	28.6	28.6				
WATERSHED	17. LENGTH OF RESERVOIR		0.2 MILES	AV. WIDTH OF RESERVOIR		0.09 MILES		
	18. TOTAL DRAINAGE AREA		1.14 SQ. MI.	22. MEAN ANNUAL PRECIPITATION		17 INCHES		
	19. NET SEDIMENT CONTRIBUTING AREA		1.12 SQ. MI.	23. MEAN ANNUAL RUNOFF		0.7 INCHES		
	20. LENGTH	2.5 MILES	AV. WIDTH	0.5 MILES	24. MEAN ANNUAL RUNOFF		43 AC.-F.T.	
	21. MAX. ELEV. 7,500		MIN. ELEV. 6,250		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
	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	
	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			

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															
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.															
48. AGENCY MAKING SURVEY      Soil Conservation Service															
49. AGENCY SUPPLYING DATA      Soil Conservation Service															
50. DATE <u>February 1972</u>															