

RESERVOIR SEDIMENT
DATA SUMMARY

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

Franktown-Parker Watershed
NAME OF RESERVOIR

SCS-34 Rev. 6-66

33-13a
DATA SHEET NO.

DAM	1. OWNER Douglas County SCD		2. STREAM Willow Creek		3. STATE Colorado			
	4. SEC. 16 TWP. 8S RANGE 66W		5. NEAREST P.O. Castle Rock		6. COUNTY Douglas			
	7. LAT 39° 21' 30" LONG 104° 47' 15"		8. TOP OF DAM ELEVATION 124.7		9. SPILLWAY CREST ELEV 117.9			
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	117.9	17.3	269.0	387.0	June 1963		
	b. MULTIPLE USE							
	c. POWER							
	d. WATER SUPPLY					16. DATE NORMAL OPER. BEGAN		
	e. IRRIGATION							
	f. CONSERVATION							
	g. INACTIVE	99.9	4.6	118.0	118.0	June 1963		
17. LENGTH OF RESERVOIR		0.45	MILES	AV. WIDTH OF RESERVOIR		0.06 MILES		
WATERSHED	18. TOTAL DRAINAGE AREA		7.60	SQ. MI.	22. MEAN ANNUAL PRECIPITATION		18 INCHES	
	19. NET SEDIMENT CONTRIBUTING AREA		7.57	SQ. MI.	23. MEAN ANNUAL RUNOFF		0.8 INCHES	
	20. LENGTH		6.0	MILES	AV. WIDTH		1.3 MILES	
	21. MAX. ELEV.		7,160		MIN. ELEV.		6,360	
					25. ANNUAL TEMP: MEAN		46 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.
	June 1963	-	-	-	-	17.3	387.0	1.2
	Jan. 1967	4.6	4.6	Range	24	17.3	337.4	1.04
	Nov. 1973	6.9	11.5	Range	24	17.3	308.3	1.0
	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	
	Jan. 1967	49.6	10.78	1.42	49.6	10.78	1.42	
Nov. 1973	29.1	4.22	0.56	78.7	6.84	0.90		
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	
Jan. 1967	-	-	-	2.79	12.8			
Nov. 1973	-	-	-	1.8	20.3			

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

Almost all of the sediment in the reservoir was deposited during extremely large storms on June 16, 1965, and May 6, 1973, and a smaller storm on July 24, 1965.

48. AGENCY MAKING SURVEY Soil Conservation Service

49. AGENCY SUPPLYING DATA Soil Conservation Service

50. DATE February 4, 1974