

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

Franktown-Parker Watershed
NAME OF RESERVOIR

34 - 15
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					16. DATE NORMAL OPER. BEGAN			
	d. WATER SUPPLY								
	e. IRRIGATION								
	f. CONSERVATION								
g. INACTIVE	99.9	4.6	118.0	118.0	June 1963				
WATERSHED	17. LENGTH OF RESERVOIR 0.45 MILES		AV. WIDTH OF RESERVOIR 0.06 MILES						
	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		24. MEAN ANNUAL RUNOFF 324 AC.-F.T.				
	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				

28. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET BELOW, AND ABOVE, CREST ELEVATION														
	PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION														
28. 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															
<p>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.</p> <p>This site was previously reported as 33 - 13a.</p>															
48. AGENCY MAKING SURVEY				Soil Conservation Service											
49. AGENCY SUPPLYING DATA				Soil Conservation Service				50. DATE February 4, 1974							