

RESERVOIR SEDIMENT DATA SUMMARY

Q-51 Kiowa Creek Watershed

34 - 18

NAME OF RESERVOIR

DATA SHEET NO.

DAM	1. OWNER <u>Kiowa SCD</u>		2. STREAM <u>Trih of Kiowa Creek</u>		3. STATE <u>Colorado</u>			
	4. SEC. <u>23</u> TWP. <u>10 S.</u> RANGE <u>64W</u>		5. NEAREST P.O. <u>Elbert</u>		6. COUNTY <u>Elbert</u>			
	7. LAT. <u>39° 10' 00"</u> LONG. <u>104° 31' 10"</u>		8. TOP OF DAM ELEVATION <u>7009.73</u>		9. SPILLWAY CREST ELEV. <u>7004.73</u>			
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	7004.73	2.90	23.21	32.30	September 1956		
	b. MULTIPLE USE							
	c. POWER							
	d. WATER SUPPLY					16. DATE NORMAL OPER. BEGAN		
	e. IRRIGATION							
	f. CONSERVATION					September 1956		
g. INACTIVE <u>1/</u>	6993.73		9.09	9.09				
17. LENGTH OF RESERVOIR		0.17 MILES		AV. WIDTH OF RESERVOIR		0.03 MILES		
WATERSHED	18. TOTAL DRAINAGE AREA		0.56 SQ. MI.		22. MEAN ANNUAL PRECIPITATION		17 INCHES	
	19. NET SEDIMENT CONTRIBUTING AREA		0.56 SQ. MI.		23. MEAN ANNUAL RUNOFF		0.5 INCHES	
	20. LENGTH		1.0 MILES		AV. WIDTH		0.6 MILES	
	21. MAX. ELEV.		7,200		MIN. ELEV.		6,995	
	25. ANNUAL TEMP: MEAN		48		RANGE		28-70	
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.
	Sept. 1956	-	-	Range	13	2.90	32.30	2.16
	June 1957	0.8	0.8	Range	13	2.90	32.30	2.16
	Jan. 1966	8.6	9.4	Range	13	2.90	30.67	2.05
	April 1979	13.2	22.6	Range	13	2.90	29.30	1.96
	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	
	June 1957	0.00	0.00	0.00	0.00	0.00	0.00	
	Jan. 1966	1.63	0.19	0.34	1.63	0.17	0.30	
	April 1979	1.37	0.10	0.19	3.00	0.13	0.23	
	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
	June 1957				0.00	0.00		
Jan. 1966				0.54	5.05			
April 1979				0.41	9.29			

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															
<p>Sediment deposited in the sediment pool totals 2.75 acre-feet (92%) and sediment in the flood pool totals 0.25 acre-feet (8%). Most of the 1.63 acre-feet of sediment measured in January 1966 was deposited during an extremely large storm on June 17, 1965, in which a large flow occurred in the emergency spillway.</p> <p><u>1</u>/ Sediment pool only.</p>															
48. AGENCY MAKING SURVEY Soil Conservation Service															
49. AGENCY SUPPLYING DATA Soil Conservation Service															
50. DATE <u>January 1981</u>															