

RESERVOIR SEDIMENT
DATA SUMMARY

SCS-34 Rev. 6-62

Kiowa Creek Watershed

NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

34-12

DATA SHEET NO.

DAM	1. OWNER Kiowa SCD		2. STREAM Kiowa Creek		3. STATE Colorado				
	4. SEC. 15 TWP. 10 S RANGE 64 W		5. NEAREST TOWN Elbert		6. COUNTY Elbert				
	7. STREAM BED ELEVATION 6887.3		8. TOP OF DAM ELEVATION 6909.56		9. SPILLWAY CREST ELEV. 6904.56				
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. MULTIPLE USE								
	b. FLOOD CONTROL	6904.56	7.23	32.86	49.36				
	c. POWER								
	d. WATER SUPPLY					16. DATE NORMAL OPER BEGAN			
	e. IRRIGATION								
	f. CONSERVATION					December			
	g. SEDIMENT	6898.96	4.17	16.50	16.50	1955			
	h. INACTIVE								
WATERSHED	17. LENGTH OF RESERVOIR 0.12 MILES		AV. WIDTH OF RESERVOIR 0.10 MILES						
	18. TOTAL DRAINAGE AREA 0.65 SQ. MI.		22. MEAN ANNUAL PRECIPITATION		INCHES				
	19. NET SEDIMENT CONTRIBUTING AREA 0.64 SQ. MI.		23. MEAN ANNUAL RUNOFF		INCHES				
	20. LENGTH 1.2 MILES		AV. WIDTH 0.5 MILES		24. MEAN ANNUAL RUNOFF AC.-FT.				
	21. MAX. ELEV.		MIN. ELEV.		25. CLIMATIC CLASSIFICATION				
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/W RATIO AC.-FT. PER SQ. MI.	
	Dec. 1955			Range	18	7.23	49.36	76	
	July 1965	9.5	9.5	Range	18	7.23	48.81	75	
	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 SEDIMENT DEPOSITS 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		
	July 1965	-	-	-	-	-	-	-	-
		0.55	0.06	0.09	0.55	0.06	0.09		
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. AN.	b. TOT. TO DATE	a. PERIOD	b. TOT. TO DATE			
July 1965	80*	157	157	0.11	1.11				

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET ABOVE, AND BELOW, 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 an extremely large storm on June 17, 1965, in which water level in the reservoir was above the riser. All of the sediment was deposited below the riser crest in the sediment pool. A large stock pond lies on one fork of the drainage just above the reservoir.

48. AGENCY MAKING SURVEY Soil Conservation Service
49. AGENCY SUPPLYING DATA Soil Conservation Service
50. DATE May 2, 1966