

RESERVOIR SEDIMENT DATA SUMMARY

Kiowa Creek K-79

34 - 19

NAME OF RESERVOIR

DATA SHEET NO.

DAM	1. OWNER Kiowa SCD			2. STREAM Trib. of Kiowa Ck.			3. STATE Colorado									
	4. SEC. 29 TWP. 11S RANGE 64 W			5. NEAREST P.O. Peyton			6. COUNTY El Paso									
	7. LAT. 39° 04' 00" LONG. 104° 34' 50"			8. TOP OF DAM ELEVATION 7313.0			9. SPILLWAY CREST ELEV. 7307.2									
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		7307.23		16.58		105.14		129.51		June 1955					
	b. MULTIPLE USE															
	c. POWER															
	d. WATER SUPPLY										16. DATE NORMAL OPER. BEGAN					
	e. IRRIGATION															
	f. CONSERVATION										June 1955					
	g. INACTIVE 1/		7297.90		5.20		24.37		24.37							
WATERSHED	17. LENGTH OF RESERVOIR				0.24 MILES				AV. WIDTH OF RESERVOIR				0.11 MILES			
	18. TOTAL DRAINAGE AREA				3.36 SQ. MI.				22. MEAN ANNUAL PRECIPITATION				17 INCHES			
	19. NET SEDIMENT CONTRIBUTING AREA				3.33 SQ. MI.				23. MEAN ANNUAL RUNOFF				0.6 INCHES			
	20. LENGTH 3.2 MILES				AV. WIDTH 1.1 MILES				24. MEAN ANNUAL RUNOFF				108 AC.-FT.			
	21. MAX. ELEV. 7,600				MIN. ELEV. 7,300				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.	
	June 1955		-		-		Range		38		16.58		129.51		1.20	
	July 1965		10		10		Range		38		16.58		122.03		1.13	
	May 1975		10		20		Range		38		16.58		121.37		1.12	
	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			
	July 1965		7.48		0.748		0.22		7.48		0.748		0.22			
May 1975		0.66		0.066		0.02		8.14		0.407		0.12				
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		
July 1965								0.58		5.78						
May 1975								0.31		6.29						

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>Most of the sediment in the reservoir was deposited during an extremely large storm on June 17, 1965, in which flow through the emergency spillway was about four feet deep. Sediment deposited in the sediment pool totals 7.05 acre-feet (65%). Sediment deposited in the flood pool totals 3.75 acre-feet (35%).</p> <p><u>1/</u> Sediment pool only.</p>															
48. AGENCY MAKING SURVEY Soil Conservation Service										50. DATE February 1979					
49. AGENCY SUPPLYING DATA Soil Conservation Service															