RESERVOIR SEDIMENT DATA SUMMARY
SCS-34 Rev. 5-62

J-33
Kiowa Creek Watershed
NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

34- 11
DATA SHEET NO.

DAM

1. OWNER Kiowa SCD	2. STREAM Kiowa Creek	3. STATE Colorado
4. SEC. 9 TWP. 11 S RANGE 64 W	5. NEAREST TOWN Eastonville	6. COUNTY El Paso
7. STREAM BED ELEVATION 7134.0	8. TOP OF DAM ELEVATION 7157.00	9. SPILLWAY CREST ELEV. 7152.00

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	7152.00	6.94	37.68	42.55	
c. POWER					
d. WATER SUPPLY					16. DATE NORMAL OPER. BEGAN
e. IRRIGATION					
f. CONSERVATION					July 1956
g. SEDIMENT	7142.50	1.57	4.87	4.87	
h. INACTIVE					

17. LENGTH OF RESERVOIR 0.11 MILES | AV. WIDTH OF RESERVOIR 0.10 MILES

WATERSHED

18. TOTAL DRAINAGE AREA 1.07 SQ. MI. | 22. MEAN ANNUAL PRECIPITATION INCHES
19. NET SEDIMENT CONTRIBUTING AREA 1.06 SQ. MI. | 23. MEAN ANNUAL RUNOFF INCHES
20. LENGTH 1.5 MILES | AV. WIDTH 0.7 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.
July 1956	-	-	Range	19	6.94	42.55	40
July 1965	9	9	Range	16	6.94	42.05	39

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	- 0.50	- 0.06	- 0.05	- 0.50	- 0.06	- 0.05

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*	87	87	0.13	1.17		

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 flow through the emergency spillway was about 3½ feet deep. Most of sediment was deposited in sediment pool. A small stock pond lies on one fork of the drainage at the upper end of the reservoir.

48. AGENCY MAKING SURVEY Soil Conservation Service

49. AGENCY SUPPLYING DATA Soil Conservation Service

50. DATE May 2, 1966