

RESERVOIR SEDIMENTATION
DATA SUMMARY

Reichelt Stock Pond

NAME OF RESERVOIR

33-8a

DATA SHEET NO.

DAM	1. OWNER Reichelt Estate				2. RIVER Not named			3. STATE Colorado			
	4. SEC. SW 1/4 19 TWP. 11N RANGE 44W				5. NEAREST TOWN Julesburg			6. COUNTY Sedgwick			
	7. STREAM BED ELEV. 88.0				8. TOP OF DAM ELEV. 100.5*			9. SPILLWAY CREST ELEV. 97.5*			
RESERVOIR	10. STORAGE ALLOCATION		11. ELEVATION TOP OF POOL		12. SURFACE AREA ACRES		13. STORAGE ACRE- FEET		14. ACCUMULATED ACRE- FEET		15. DATE STORAGE BEGAN
	a. FLOOD CONTROL										Oct. 1950
	b. POWER										
	c. WATER SUPPLY										16. DATE NORMAL OPER. BEGAN
	d. IRRIGATION										
	e. CONSERVATION		97.5*		5.59		22.12		22.12		
	f. INACTIVE										Oct. 1950
17. LENGTH OF RESERVOIR 530 feet MILES AV. WIDTH OF RESERVOIR 580 feet MILES											
WATERSHED	18. TOTAL DRAINAGE AREA 0.72 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 17.5 INCHES						
	19. NET SEDIMENT CONTRIBUTING AREA 0.71 SQ. MI.				23. MEAN ANNUAL RUNOFF INCHES						
	20. LENGTH 1.5 MILES AV. WIDTH 0.6 MILES				24. MEAN ANNUAL RUNOFF AG.-FT.						
	21. MAX. ELEV. 3,810 MIN. ELEV. 3,690				25. CLIMATIC CLASSIFICATION Semi-arid						
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.
	Oct. 1950		0	0			5.53		22.12		31.6
	Nov. 21, 1957		7	7	Range	7	5.59		20.69		29.2
	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	d. MEAN ANNUAL	e. 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	d. TOTAL TO DATE	e. AV. ANNUAL	f. PER SQ. MI.-YEAR			
	Nov. 21, 1957		1.43	0.20	0.28	1.43	0.20	0.28			
	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	c. AV. ANNUAL	d. TOT. TO DATE	e. PERIOD	f. TOT. TO DATE				
Nov. 21, 1957		80.4**	490	490	.92	646					

* Elevation assumed.

** Ave. Silt-Clay 63.5 lbs. cu. ft. (62.1%)
Sand-Gravel 107.9 lbs. cu. ft. (37.9%)

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															
<p>0.50 sq. mi. of drainage area is rangeland with low erosion rates. 0.21 sq. mi. of drainage area is cropland with moderate erosion rates. Streambank erosion along the channel upstream from the reservoir is the source of the sand and gravel in the sediment deposits.</p>															
48. AGENCY SUPPLYING DATA				Soil Conservation Service		49. DATE		June 23, 1958							