

E-8

RESERVOIR SEDIMENTATION
DATA SUMMARY

Castlewood Reservoir

NAME OF RESERVOIR

34 - 1

DATA SHEET NO.

DAM	1. OWNER Denver Land & Water Co.			2. RIVER Cherry Creek			3. STATE Colorado				
	4. SEC. 22, 23 TWP. 8S RANGE 66W			5. NEAREST TOWN 35 Mi. Denver			6. COUNTY Douglas				
	7. STREAM BED ELEV. -			8. TOP OF DAM ELEV. -			9. SPILLWAY CREST ELEV. -				
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					1890					
	b. POWER										
	c. WATER SUPPLY										
	d. IRRIGATION		179.8	3,834	3,834	16. DATE NORMAL OPER. BEGAN					
	e. CONSERVATION										
	f. INACTIVE										
WATERSHED	17. LENGTH OF RESERVOIR			MILES	AV. WIDTH OF RESERVOIR			MILES			
	18. TOTAL DRAINAGE AREA			167.2	SQ. MI.	22. MEAN ANNUAL PRECIPITATION			INCHES		
	19. NET SEDIMENT CONTRIBUTING AREA			166.9	SQ. MI.	23. MEAN ANNUAL RUNOFF			INCHES		
	20. LENGTH		MILES	AV. WIDTH	MILES	24. MEAN ANNUAL RUNOFF			AC-FT.		
	21. MAX. ELEV.		MIN. ELEV.		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.			
	1890	-	-	-	-	179.8	3,834	22.9			
	Aug. 1933 1/	43	43	Range detailed 2/	11	176.4	3,126	18.7			
	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				
	Aug. 1933	708	16.5	0.099	708	16.5	0.099				
	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. ANNUAL	b. TOT. TO DATE	a. PERIOD	b. TOT. TO DATE			
Aug. 1933	77.5 (4)	167	167	0.43	18.47						

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
1/ Survey in 1939; dam failed in 1933
2/ Capacities of one segment of reservoir determined by contour method.

Sedimentation Section
 Soil Conservation Service
 U. S. Dept. of Agriculture
 Washington, D. C.

48. AGENCY SUPPLYING DATA _____ 49. DATE July 10, 1951