

**RESERVOIR SEDIMENT
DATA SUMMARY**

SCS-34 Rev. 6-62

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

Round Butte
NAME OF RESERVOIR

34-9

DATA SHEET NO.

DAM	1. OWNER		2. STREAM Coal Creek		3. STATE Colorado			
	4. SEC. 19 TWP. 11 N RANGE 08 W		5. NEAREST TOWN Wellington		6. COUNTY Larimer			
	7. STREAM BED ELEVATION 90.1		8. TOP OF DAM ELEVATION 120.1		9. SPILLWAY CREST ELEV. 114.4			
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	114.4	2	831	831			
	c. POWER							
	d. WATER SUPPLY							
	e. IRRIGATION					16. DATE NORMAL OPER. BEGAN		
	f. CONSERVATION							
	g. SEDIMENT							
h. INACTIVE					1905			
17. LENGTH OF RESERVOIR 0.3 MILES			AV. WIDTH OF RESERVOIR 0.3 MILES					
WATERSHED	18. TOTAL DRAINAGE AREA 11.7 SQ. MI.		22. MEAN ANNUAL PRECIPITATION		INCHES			
	19. NET SEDIMENT CONTRIBUTING AREA 11.6 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. PERSQ. MI.
	1905	-	-	-	-	52	831	71
	June 1965	60	60	Range	13	52	785	67
	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	
	June 1965	46	0.77	0.07	46	0.77	0.07	
	26. DATE OF SURVEY	39. AV. DRY WGT. LBS. PER CU. FT.	40. SED. DEP. TONS PERSQ. 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	
June 1965	69	105	195	0.09	5.54			

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

Round Butte Reservoir is an enclosed depression into which a tributary of Coal Creek has been diverted. An additional 7 acre-feet of sediment was measured above the diversion dike, making the total sediment yield 63 acre feet for the period or a rate of 0.090 acre feet per square mile per year.

48. AGENCY MAKING SURVEY

49. AGENCY SUPPLYING DATA Soil Conservation Service

50. DATE Sept. 10, 1965