

RESERVOIR SEDIMENT  
DATA SUMMARY

SCS-34 Rev. 6-66

South Soda Creek Weir

NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

64-2  
64-2

DATA SHEET NO.

DAM	1. OWNER <u>USDA - F.S.</u>				2. STREAM <u>S. Soda Creek</u>				3. STATE <u>Colorado</u>							
	4. SEC. <u>25</u>		TWP. <u>7N</u>		RANGE <u>84W</u>		5. NEAREST P.O. <u>Steamboat Springs</u>				6. COUNTY <u>Routt</u>					
	7. LAT. <u>40° 32' 30"</u>				LONG. <u>106° 45'</u>				8. TOP OF DAM ELEVATION				9. SPILLWAY CREST ELEV.			
RESERVOIR	10. STORAGE ALLOCATION		11. ELEVATION TOP OF POOL		12. ORIGINAL SURFACE AREA, <del>ACRES</del>		13. ORIGINAL CAPACITY, ACRE-FEET		14. GROSS STORAGE, ACRE-FEET		15. DATE STORAGE BEGAN					
	a. FLOOD CONTROL															
	b. MULTIPLE USE															
	c. POWER															
	d. WATER SUPPLY										16. DATE NORMAL OPER. BEGAN					
	e. IRRIGATION															
	f. CONSERVATION															
	g. INACTIVE		<u>N.A.<sup>1</sup></u>		<u>540 Ft.<sup>2</sup></u>						<u>10-1-67</u>					
WATERSHED	17. LENGTH OF RESERVOIR				MILES				AV. WIDTH OF RESERVOIR				MILES			
	18. TOTAL DRAINAGE AREA				<u>3.40</u>				SQ. MI.				22. MEAN ANNUAL PRECIPITATION (4) <u>58.45<sup>2</sup></u>		INCHES	
	19. NET SEDIMENT CONTRIBUTING AREA				<u>3.40</u>				SQ. MI.				23. MEAN ANNUAL RUNOFF (4) <u>37.8<sup>3</sup></u>		INCHES	
	20. LENGTH		<u>4.0</u>		MILES		AV. WIDTH		<u>0.8</u>		MILES		24. MEAN ANNUAL RUNOFF (4) <u>6848.10<sup>3</sup></u>		AC.-FT.	
	21. MAX. ELEV.		<u>10,724 Ft.</u>		MIN. ELEV.		<u>8,300 Ft.</u>		25. ANNUAL TEMP.: MEAN				RANGE			
SURVEY DATA	26. DATE OF SURVEY <sup>4</sup>		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.			
	10-1-68		1	1	↑ See Remark <sup>5</sup> ↓											
	10-1-69		1	2												
	10-1-70		1	3												
	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			
	10-1-67		<u>52.4<sup>2</sup></u>		<u>6613.04<sup>3</sup></u>											
	10-1-68		<u>55.0</u>		<u>6663.15</u>											
	10-1-69		<u>60.3</u>		<u>6420.91</u>											
	10-1-70		<u>66.1</u>		<u>7594.29</u>											
26. DATE OF SURVEY <sup>4</sup>		37. PERIOD CAPACITY LOSS, <del>ACRE-FEET</del>				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				
10-1-68						<u>199 Ft<sup>3</sup>/Mi<sup>2</sup></u>		<u>.005</u>								
10-1-69						<u>16</u>		<u>.0003</u>								
10-1-70						<u>221</u>		<u>.005</u>								
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		
10-1-68				<u>13.43</u>		<u>13.43</u>										
10-1-69		<u>135 (Est.)</u>		<u>1.08</u>		<u>7.25</u>										
10-1-70				<u>14.92</u>		<u>9.81</u>										

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
	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  
<sup>1</sup> Weir pond used to collect bedload sediment and debris.  
<sup>2</sup> Area-mean precipitation for water year.  
<sup>3</sup> April-September runoff.  
<sup>4</sup> Weir pond cleaned each fall.  
<sup>5</sup> Gross sediment accumulations determined by cross-sectioning (Tabulation is in Ft<sup>3</sup>/Mi<sup>2</sup>).

48. AGENCY MAKING SURVEY Rocky Mt. Forest and Range Exp. Station  
49. AGENCY SUPPLYING DATA Same  
50. DATE 8/1/71