

**RESERVOIR SEDIMENT
DATA SUMMARY**

SCS-34 Rev. 6-62

Duck Fork
NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

64-1

DATA SHEET NO.

DAM	1. OWNER Ferron Canal & Res. Co.		2. STREAM Ferron Creek		3. STATE Utah		
	4. SEC. 11 TWP. 19S RANGE 4E		5. NEAREST TOWN Ferron		6. COUNTY Sanpete		
	7. STREAM BED ELEVATION 924 ⁺ x		8. TOP OF DAM ELEVATION 964 ^x		9. SPILLWAY CREST ELEV. 958.5 ^x		
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					1942?	
	b. FLOOD CONTROL						
	c. POWER						
	d. WATER SUPPLY						
	e. IRRIGATION	958.5 x	43	880 1/	880 1/	16. DATE NORMAL OPER. BEGAN	
	f. CONSERVATION					1943?	
	g. SEDIMENT						
h. INACTIVE							
17. LENGTH OF RESERVOIR		0.45	MILES	AV. WIDTH OF RESERVOIR		0.28 MILES	
WATERSHED	18. TOTAL DRAINAGE AREA		3.56	SQ. MI.	22. MEAN ANNUAL PRECIPITATION		35 INCHES
	19. NET SEDIMENT CONTRIBUTING AREA		3.56	SQ. MI.	23. MEAN ANNUAL RUNOFF		16 ^x INCHES
	20. LENGTH	3.6 MILES	AV. WIDTH	1.0 MILES	24. MEAN ANNUAL RUNOFF		3,040 AC.-FT.
	21. MAX. ELEV.	10,700	MIN. ELEV.	9,200	25. CLIMATIC CLASSIFICATION		Humid
	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
1940	0	0	Contour (D)	2 Foot	35 1/	718 1/	202
10-4-62	20	20	(R)	12 (M)	43 1/	870 1/	244
SURVEY DATA	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
	10-4-62	35	3,040 ^x	--	60,800 ^x	3,040 ^x	60,800 ^x
	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
10-4-62	10	0.5	.14	10	0.5	.14	
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
10-4-62	60 ^{xx}	183	183	.0006	.011		

x Assumed elevation
xx Estimated

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.
<u>2/</u>							

46. ELEVATION-AREA-CAPACITY DATA								
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY
958.5	43	880						
950	25.5	510						
940	10	200						
930	1	22						
924	0	0						

47. REMARKS AND REFERENCES

1/ Dam was raised about 6 feet in 1952.

2/ Reservoir is drained each year. Storage is usually not started until spring and the stored water is released in July.

48. AGENCY MAKING SURVEY

49. AGENCY SUPPLYING DATA SCS, WPS, Salt Lake City, Utah

50. DATE 2-19-64