

RESERVOIR SEDIMENT  
DATA SUMMARY

Bureau of Reclamation

STARVATION RESERVOIR

NAME OF RESERVOIR

64-10

DATA SHEET NO.

DAM	1. OWNER <b>USDI - USBR</b>		2. STREAM <b>Strawberry</b>		3. STATE <b>Utah</b>					
	4. SEC. <b>27, 28</b> TWP. <b>3S.</b> RANGE <b>5W.</b>		5. NEAREST P O <b>Duchesne 3NW.</b>		6. COUNTY <b>Duchesne</b>					
	7. LAT. <b>40° 12'</b> " LONG <b>110° 27'</b> "		8. TOP OF DAM ELEVATION <b>5725.0</b>		9. SPILLWAY CREST ELEV. <b>5712.0</b>					
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. FLOOD CONTROL					11/10/69				
	b. MULTIPLE USE									
	c. POWER					16. DATE NORMAL OPER. BEGAN				
	d. WATER SUPPLY									
	e. IRRIGATION	5712.0	3310	152,330	167,310					
	f. CONSERVATION									
	g. INACTIVE	5624.8 <sup>1/2</sup>	689	14,980	14,980					
17. LENGTH OF RESERVOIR <b>10.9<sup>1/2</sup></b>		MILES		AV. WIDTH OF RESERVOIR <b>0.47</b>		MILES				
WATERSHED	18. TOTAL DRAINAGE AREA <b>950</b>		SQ. MI.		22. MEAN ANNUAL PRECIPITATION <b>17.5</b>		INCHES			
	19. NET SEDIMENT CONTRIBUTING AREA <b>775</b>		SQ. MI.		23. MEAN ANNUAL RUNOFF <b>2<sup>2/3</sup></b>		INCHES			
	20. LENGTH <b>60.0</b>		MILES		AV. WIDTH <b>15.8</b>		MILES			
	21. MAX. ELEV <b>10,584</b>		MIN. ELEV. <b>5563</b>		25. ANNUAL TEMP. MEAN <b>39°</b>		RANGE <b>4° - 78°</b>			
	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/I. RATIO, AC.-FT. PER AC.-FT.	
11/10/69		0	0	Range (D)	17	3310	167,310	1.09		
11/15/79		10.0	10.0	Range (R)	17	<u>3/</u>	166,137	1.09		
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	
	11/15/79		<u>3/</u>		102,200	143,890	1,022,000	102,200	1,022,000	
	26. DATE OF SURVEY		37. PERIOD CAPACITY LOSS, 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		
11/15/79		1173	117.3	.15	1173	117.3	.15			
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		
11/15/79		<u>3/</u>	<u>3/</u>	<u>3/</u>	0.07	0.07	<u>3/</u>	<u>3/</u>		

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET BELOW, AND ABOVE, CREST ELEVATION												
	PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION												
11/15/79	3/												

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														
11/15/79	3/														

45. RANGE IN RESERVOIR OPERATION							
WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW, AC.-FT.	WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW, AC.-FT.
1970	5688.17	5563.00	139,180	1978	5712.28	5694.23	96,440
1971	5712.52	5686.42	121,200	1979	5704.75	5624.77	86,915
1972	5712.20	5701.45	97,630				
1973	5712.32	5701.56	129,660				
1974	5708.25	5666.77	74,700				
1975	5712.20	5668.34	143,890				
1976	5712.20	5701.74	69,870				
1977	5712.22	5694.24	62,610				

46. ELEVATION-AREA-CAPACITY DATA								
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY

47. REMARKS AND REFERENCES

1/ Strawberry River ARM 6.4 mile, Rabbit Gulch ARM 2.1 mile, Saleratus Wash ARM 2.4 mile.

2/ 110,400 acre-feet from Strawberry River plus 42,500 acre-feet from Duchesne River via Knight Diversion Dam.

3/ Undetermined.