

RESERVOIR SEDIMENT
DATA SUMMARY

SCS-34 Rev. 6-66

Black Knolls

NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

62-14

DATA SHEET NO.

DAM	1. OWNER --		2. STREAM trib. to City Creek		3. STATE Utah			
	4. SEC. 5 TWP. 42S RANGE 15W		5. NEAREST P.O. St. George		6. COUNTY Washington			
	7. LAT. 37° 04' " LONG. 113° 33' "		8. TOP OF DAM ELEVATION --		9. SPILLWAY CREST ELEV.			
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					1922		
	b. MULTIPLE USE							
	c. POWER					16. DATE NORMAL OPER. BEGAN		
	d. WATER SUPPLY			20.0*	20.0*			
	e. IRRIGATION							
	f. CONSERVATION					1922		
g. INACTIVE								
WATERSHED	17. LENGTH OF RESERVOIR 500 feet		INDEX	AV. WIDTH OF RESERVOIR 500 feet		INDEX		
	18. TOTAL DRAINAGE AREA 0.59		SQ. MI.	22. MEAN ANNUAL PRECIPITATION 10		INCHES		
	19. NET SEDIMENT CONTRIBUTING AREA 0.58		SQ. MI.	23. MEAN ANNUAL RUNOFF 0.2		INCHES		
	20. LENGTH 1.78 MILES		AV. WIDTH 0.33 MILES	24. MEAN ANNUAL RUNOFF 6.3		AC.-FT.		
	21. MAX. ELEV. 3,740		MIN. ELEV. 3,420	25. ANNUAL TEMP.: MEAN 60° RANGE 39°-84°F				
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/I. RATIO, AC.-FT. PER AC.-FT.
	11-24-65	43	43	Range R	6	5.7*	20.0*	3.2
	26. DATE OF SURVEY	34. PERIOD ANNUAL PRECIPITATION		35. PERIOD WATER INFLOW, ACRE-FEET			36. WATER INFL. TO DATE, AC.-FT.	
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	26. DATE OF SURVEY	37. PERIOD CAPACITY LOSS, ACRE-FEET			38. TOTAL SED. DEPOSITS TO DATE, ACRE-FEET			
	11-24-65	a. PERIOD TOTAL	b. AV. ANNUAL	c. PER SQ. MI.-YEAR	a. TOTAL TO DATE	b. AV. ANNUAL	c. PER SQ. MI.-YEAR	
	11-24-65	8.65	0.20	0.34	8.65	0.20	0.34	
	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	
	11-24-65	75*	a. PERIOD	b. TOTAL TO DATE	a. AV. ANN.	b. TOT. TO DATE	a. PERIOD	b. TOT. TO DATE
11-24-65	75*	555.	555	1.0	43.25			

*Assumed or estimated

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

Survey by auger borings - no original topography
 Cover - brush and annuals
 Geology - Navajo formation, basalt and alluvium

48. AGENCY MAKING SURVEY Utah State Watershed Planning Party
 49. AGENCY SUPPLYING DATA Soil Conservation Service
 50. DATE 10-14-71