

RESERVOIR SEDIMENT  
DATA SUMMARY  
SCS-34 Rev. 6-62

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

Riggs Flat Charco  
NAME OF RESERVOIR

62 - 3  
DATA SHEET NO.

DAM	1. OWNER Kaibab Indian Reservation		2. STREAM Sandy Canyon Wash		3. STATE Arizona			
	4. SEC. 3 TWP. 40N RANGE 3W		5. NEAREST TOWN Fredonia		6. COUNTY Mohave County			
	7. STREAM BED ELEVATION 4600*		8. TOP OF DAM ELEVATION 4612.7		9. SPILLWAY CREST ELEV. 4607.8* 1/			
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					10/56		
	b. FLOOD CONTROL							
	c. POWER							
	d. WATER SUPPLY	4607.8* 2/	21.84	54.93	54.93	16. DATE NORMAL OPER. BEGAN		
	e. IRRIGATION					10/56		
	f. CONSERVATION							
	g. SEDIMENT							
	h. INACTIVE							
17. LENGTH OF RESERVOIR 0.15		MILES		AV. WIDTH OF RESERVOIR 0.23		MILES		
WATERSHED	18. TOTAL DRAINAGE AREA 57.86		SQ. MI.		22. MEAN ANNUAL PRECIPITATION 9.70 (27)		INCHES	
	19. NET SEDIMENT CONTRIBUTING AREA 57.83		SQ. MI.		23. MEAN ANNUAL RUNOFF 0.1		INCHES	
	20. LENGTH 16.3		MILES		AV. WIDTH 3.5		MILES	
	21. MAX. ELEV. 6200 *		MIN. ELEV. 4600*		25. CLIMATIC CLASSIFICATION Arid			
	24. MEAN ANNUAL RUNOFF 308.4		AC.-FT.					
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. PER SQ. MI.
	10-56	-	-		-	21.84	54.93	0.95
	9-9-65	8.9	8.9	Range (D)	11	21.84	36.58	0.63
	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	
	9-9-65	8.59						
	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	
	9-9-65	18.35	2.06	0.035	18.35	2.06	0.035	
	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	
9-9-65	72.0 (1)	55	55	3.8	33.4			

\*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.

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

47. REMARKS AND REFERENCES  
 1/ Elev. 4607.8 represents silt line elevation. Emergency spillway crest elev. is 4606.1.  
 2/ Reservoir serves as a desilting basin for down stream stock tank and is completely drained by a principal spillway at elev. 4604.0\*.  
 Drainage area includes Moenkopi formation, Shinarump conglomerate, Chinle formation and sandstones of the Glen Canyon group.  
 Land Use in Watershed: 100% Rangeland

48. AGENCY MAKING SURVEY USDA-SCS, Watershed Planning Party, Phoenix, Arizona  
 49. AGENCY SUPPLYING DATA USDA-SCS so. DATE 4-11-65