

RESERVOIR SEDIMENT
DATA SUMMARY

SCS-34 Rev. 6-62

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

Kaibab Indian Reservation Erosion

NAME OF RESERVOIR
Control Structure

62-5

DATA SHEET NO.

Unnamed Tributary of

DAM	1. OWNER <u>Kaibab Indian Reservation</u>		2. STREAM <u>Kan ab Creek</u>		3. STATE <u>Arizona</u>			
	4. SEC. <u>8</u> TWP. <u>40N</u> RANGE <u>3W</u>		5. NEAREST TOWN <u>Indian Moccasins</u>		6. COUNTY <u>Mohave County</u>			
	7. STREAM BED ELEVATION <u>4621.5*</u>		8. TOP OF DAM ELEVATION <u>4635.7*</u>		9. SPILLWAY CREST ELEV. <u>4629.7*</u>			
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					1935		
	b. FLOOD CONTROL							
	c. POWER							
	d. WATER SUPPLY	<u>4629.7*</u>	<u>2.336</u>	<u>6.008</u>	<u>6.008</u>	16. DATE NORMAL OPER. BEGAN		
	e. IRRIGATION					1935		
	f. CONSERVATION							
	g. SEDIMENT							
h. INACTIVE								
WATERSHED	17. LENGTH OF RESERVOIR <u>0.095 2/</u> MILES		AV. WIDTH OF RESERVOIR <u>0.024</u> MILES					
	18. TOTAL DRAINAGE AREA <u>1.27</u> SQ. MI.		22. MEAN ANNUAL PRECIPITATION <u>9.70 (27)</u> INCHES					
	19. NET SEDIMENT CONTRIBUTING AREA <u>1.27</u> SQ. MI.		23. MEAN ANNUAL RUNOFF <u>0.1</u> INCHES					
	20. LENGTH <u>2.2</u> MILES		AV. WIDTH <u>0.58</u> MILES		24. MEAN ANNUAL RUNOFF <u>6.77</u> AC.-FT.			
	21. MAX. ELEV. <u>5240*</u>		MIN. ELEV. <u>4621.5*</u>		25. CLIMATIC CLASSIFICATION <u>Arid</u>			
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. PERSQ. MI.
	<u>1935</u>	<u>-</u>	<u>-</u>		<u>-</u>	<u>2.336</u>	<u>6.008</u>	<u>4.73</u>
	<u>10-6-65</u>	<u>30</u>	<u>30</u>	<u>Range (D)</u>	<u>8</u>	<u>2.336</u>	<u>2.247</u>	<u>1.77</u>
	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		
	<u>10-6-65</u>	<u>9.70*</u>						
	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	
	<u>10-6-65</u>	<u>3.761 3/</u>	<u>0.125</u>	<u>0.098</u>	<u>3.761</u>	<u>0.125</u>	<u>0.098</u>	
	26. DATE OF SURVEY	39. AV. DRY WGT. LBS. PER CU. FT.	40. SED. DEP. TONS PERSQ. 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		
<u>10-6-65</u>	<u>87.2 (2)</u>	<u>186</u>	<u>186</u>	<u>2.1</u>	<u>62.5</u>			

*Estimated

25. 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/ Spillway crest eroded to elev. 4628.4.
 2/ Secondary tributary arm is 0.093 mi. long
 3/ Trap efficiency of structure estimated at 70 percent

All values entered on form are actual survey values and do not include estimates for trap efficiency of the structure.

Geology: 2.4% Shinarump conglomerate, 97.6% Moenkopi formation
 Land Use in Watershed: 100% Rangeland

48. AGENCY MAKING SURVEY USDA-SCS, Watershed Planning Party, Phoenix, Arizona
 49. AGENCY SUPPLYING DATA USDA-SCS
 50. DATE 4-11-66