

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

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

Leroy Judd Tank

NAME OF RESERVOIR

62-4

Unnamed Tributary

DATA SHEET NO.

DAM	1. OWNER <u>Leroy Judd</u>				2. STREAM <u>of Kanab Creek</u>		3. STATE <u>Arizona</u>	
	4. SEC. <u>16</u> TWP. <u>41N</u> RANGE <u>2W</u>			5. NEAREST TOWN <u>Fredonia</u>		6. COUNTY <u>Coconino County</u>		
	7. STREAM BED ELEVATION <u>4682.8*</u>			8. TOP OF DAM ELEVATION <u>4685.7*</u>		9. SPILLWAY CREST ELEV. <u>4683.5*</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							1962 <u>1/</u>
	b. FLOOD CONTROL							
	c. POWER							
	d. WATER SUPPLY		<u>4683.5*</u>		<u>0.32</u>	<u>0.95</u>	<u>0.95</u>	16. DATE NORMAL OPER. BEGAN
	e. IRRIGATION							
	f. CONSERVATION							
	g. SEDIMENT							1962 <u>1/</u>
h. INACTIVE								
WATERSHED	17. LENGTH OF RESERVOIR <u>.023</u> MILES				AV. WIDTH OF RESERVOIR <u>0.022</u> MILES			
	18. TOTAL DRAINAGE AREA <u>0.38</u> SQ. MI.				22. MEAN ANNUAL PRECIPITATION <u>9.70 (27)</u> INCHES			
	19. NET SEDIMENT CONTRIBUTING AREA <u>0.38</u> SQ. MI.				23. MEAN ANNUAL RUNOFF <u>0.1</u> INCHES			
	20. LENGTH <u>1.8</u> MILES		AV. WIDTH <u>0.21</u> MILES		24. MEAN ANNUAL RUNOFF <u>2.03</u> AC.-F.T.			
	21. MAX. ELEV. <u>4960*</u>		MIN. ELEV. <u>4682.8*</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. PER SQ. MI.
	<u>1962 1/</u>	---	---		---	<u>0.32</u>	<u>0.95</u>	<u>2.50</u>
	<u>8-17-65</u>	<u>3</u>	<u>3</u>	<u>Range (D)</u>	<u>4</u>	<u>0.32</u>	<u>0.22</u>	<u>0.58</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>8-17-65</u>	<u>8.22</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>8-17-65</u>	<u>0.73 2/</u>	<u>0.24</u>	<u>0.63</u>	<u>0.73</u>	<u>0.24</u>	<u>0.63</u>	
	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	
<u>8-17-65</u>	<u>105.7 (2)</u>	<u>1450</u>	<u>1450</u>	<u>25.6</u>	<u>76.8</u>			

*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
	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/ Tank was cleaned in 1962
 2/ Trap efficiency of reservoir is estimated at 60%
 Geology: 100% Moenkopi formation
 All values entered on form are actual survey values and do not include estimates for trap efficiency. Trap efficiency estimated at 60%
 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