

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

Brooksby Tank
NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

62- 2
DATA SHEET NO.

Unnamed Tributary of

DAM	1. OWNER <u>Preston Brooksby(B.L.M.)</u>		2. STREAM <u>Johnson Wash</u>		3. STATE <u>Arizona</u>		
	4. SEC. <u>26</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>4735.4 *</u>		8. TOP OF DAM ELEVATION <u>4738.4</u>		9. SPILLWAY CREST ELEV. <u>4735.8</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					1951	
	b. FLOOD CONTROL						
	c. POWER						
	d. WATER SUPPLY	<u>4735.8</u> <u>1/</u>	<u>0.216</u>	<u>0.697</u>	<u>0.697</u>	16. DATE NORMAL OPER. BEGAN	
	e. IRRIGATION					1951	
	f. CONSERVATION						
	g. SEDIMENT						
	h. INACTIVE						
17. LENGTH OF RESERVOIR <u>0.019</u> MILES			AV. WIDTH OF RESERVOIR <u>0.017</u> MILES				
WATERSHED	18. TOTAL DRAINAGE AREA <u>0.4</u> SQ. MI.		22. MEAN ANNUAL PRECIPITATION <u>9.70 (27)</u> INCHES				
	19. NET SEDIMENT CONTRIBUTING AREA <u>0.4</u> SQ. MI.		23. MEAN ANNUAL RUNOFF <u>0.1</u> INCHES				
	20. LENGTH <u>1.4</u> MILES	AV. WIDTH <u>0.29</u> MILES	24. MEAN ANNUAL RUNOFF <u>2.13</u> AC.-F.T.				
	21. MAX. ELEV. <u>5000*</u>		MIN. ELEV. <u>4735.4*</u>		25. CLIMATIC CLASSIFICATION <u>Arid</u>		
	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
<u>1951</u>	<u>--</u>	<u>--</u>		<u>--</u>	<u>0.216</u>	<u>0.697</u>	<u>1.74</u>
<u>9-8-65</u>	<u>14</u> <u>2/</u>	<u>14</u>	<u>Range (D)</u>	<u>7</u>	<u>0.216</u>	<u>0.140</u>	<u>0.35</u>
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
	<u>9-8-65</u>	<u>8.98</u> <u>3/</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>9-8-65</u>	<u>0.557</u> <u>4/</u>	<u>0.040</u> <u>2/</u>	<u>0.10</u>	<u>0.557</u>	<u>0.040</u>	<u>0.10</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>9-8-65</u>	<u>97.0 (2)</u>	<u>211</u>	<u>211</u>	<u>5.7</u>	<u>80.0</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	-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/ Emergency spillway eroded to elev. 4735.1.
 2/ Estimated effective life of pond is 5 years, 1951-1956.
 3/ Average rainfall for 5 year period is 8.72 inches.
 4/ Trap efficiency of structure estimated at 50%

All values entered on form are actual survey values and do not include estimates for life of reservoir or trap efficiency.
 Geology: 100% 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