

**RESERVOIR SEDIMENT
DATA SUMMARY**

SCS-34 Rev. 6-62

Upper Twin Tank

NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

60 - 34

DATA SHEET NO.

DAM	1. OWNER Jack Clem			2. STREAM Tiger Wash			3. STATE Arizona									
	4. SEC. 25 TWP. 6N RANGE 9W			5. NEAREST TOWN Aguila			6. COUNTY Maricopa									
	7. STREAM BED ELEVATION 2206*			8. TOP OF DAM ELEVATION 2215.5*			9. SPILLWAY CREST ELEV. 2208.6* ^{1/} 2206.4* ^{2/}									
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										10/44 ^{3/}					
	b. FLOOD CONTROL															
	c. POWER															
	d. WATER SUPPLY		2208.6* ^{1/}		0.72		2.21		2.21		16. DATE NORMAL OPER. BEGAN					
	e. IRRIGATION															
	f. CONSERVATION															
	g. SEDIMENT										10.44 ^{3/}					
	h. INACTIVE															
WATERSHED	17. LENGTH OF RESERVOIR 0.081 MILES				18. AV. WIDTH OF RESERVOIR 0.014 MILES											
	18. TOTAL DRAINAGE AREA 1.83 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 8.97 (33) INCHES											
	19. NET SEDIMENT CONTRIBUTING AREA 1.83 SQ. MI.				23. MEAN ANNUAL RUNOFF 0.1* INCHES											
	20. LENGTH 1.2 MILES		AV. WIDTH 1.5 MILES		24. MEAN ANNUAL RUNOFF 9.7* AC.-FT.											
	21. MAX. ELEV. 2340*		MIN. ELEV. 2206*		25. CLIMATIC CLASSIFICATION Arid											
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.	
	10/44		-		-		-		-		0.72		2.21		1.21	
	10/8/64		20		20		Range (D)		5		0.72 ^{4/} 0.45 ^{5/}		1.68 ^{4/} 0.53 ^{5/}		0.92 ^{4/} 0.29 ^{5/}	
	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			
	10/8/64		6.86													
	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			
	10/8/64		0.53		0.027		0.015		0.53		0.027		0.015			
	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				
10/8/64		46(1)		15		15		1.22 ^{4/}		24.0 ^{4/}						

*Assumed

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/ Original spillway crest elevation.
- 2/ Present spillway crest elevation due to erosion of spillway section.
- 3/ Exact date storage began was estimated from interviews with former owners.
- 4/ Reservoir data at original spillway crest elevation.
- 5/ Reservoir data at present eroded spillway crest elevation.

Land Use in Watershed: 100% Rangeland. Geology: 100% Quaternary-Tertiary sand, silt, gravel and conglomerate. Reliability of this survey is questionable, since water was in the reservoir and it was necessary to use a probe to attempt to determine depth of sediment.

48. AGENCY MAKING SURVEY: USDA-SCS

49. AGENCY SUPPLYING DATA: USDA-SCS, WPP, Phoenix, Arizona

50. DATE: 1/25/65