

RESERVOIR SEDIMENT

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

DATA SUMMARY

Wellick Tank

CS-34 Rev. 6-66

NAME OF RESERVOIR

60-48

DATA SHEET NO.

DAM	1. OWNER George Wellick				2. STREAM Trib. Flying "E" Wash		3. STATE Arizona	
	4. SEC. 20 TWP. 7N RANGE 5W			5. NEAREST P.O. Wickenburg		6. COUNTY Maricopa		
	7. LAT. ° ' " LONG. ° ' "		8. TOP OF DAM ELEVATION		9. SPILLWAY CREST ELEV.			
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. FLOOD CONTROL			11.4	79.1	79.1	1956	
	b. MULTIPLE USE							
	c. POWER							
	d. WATER SUPPLY						16. DATE NORMAL OPER. BEGAN	
	e. IRRIGATION							
	f. CONSERVATION						1956	
	g. INACTIVE							
WATERSHED	17. LENGTH OF RESERVOIR .3 MILES				AV. WIDTH OF RESERVOIR .06 MILES			
	18. TOTAL DRAINAGE AREA .79 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 10.85 INCHES			
	19. NET SEDIMENT CONTRIBUTING AREA .77 SQ. MI.				23. MEAN ANNUAL RUNOFF .09 *1 INCHES			
	20. LENGTH 2.0 MILES		AV. WIDTH .56 MILES		24. MEAN ANNUAL RUNOFF 3.79 *1 AC.-FT.			
	21. MAX. ELEV. 2720		MIN. ELEV. 2450		25. ANNUAL TEMP: MEAN 65°F RANGE 30-102°F *2			
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/I. RATIO, AC.-FT. PER AC.-FT.
	5-56	--	--	--	--	11.4	79.1	20.87
	9-24-70	14.3	14.3	Range	10	11.4	77.3	20.39
	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
	9-24-70	10.45						
	26. DATE OF SURVEY	37. PERIOD CAPACITY LOSS, 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	
	9-24-70	1.75	.12	.16	1.75	.12	.16	
	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. ANN.	b. TOT. TO DATE	a. PERIOD	b. TOT. TO DATE	
9-24-70	94.1	328	328	.15	2.21			

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET BELOW, AND ABOVE, 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 Estimated
 *2 Arizona Climate - Wickenburg, Arizona
 Emergency spillway has never functioned.
 Land use in watershed: 100% rangeland
 Geology: Quaternary-Tertiary sand, silt and gravel.
 Cretaceous andesitic flows.
 Pre-Cambrian granite.

48. AGENCY MAKING SURVEY Arizona Watershed Planning Party, Soil Conservation Service
 49. AGENCY SUPPLYING DATA Soil Conservation Service 50. DATE 1-7-71