

RESERVOIR SEDIMENT  
DATA SUMMARY

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

SCS-34 Rev. 6-66

Bennett 14  
NAME OF RESERVOIR

60-41a  
DATA SHEET NO.

DAM	1. OWNER <u>S. Bennett</u>		2. STREAM <u>Walnut Gulch</u>		3. STATE <u>Arizona</u>								
	4. SEC. <u>28</u> TWP. <u>19 S</u> RANGE <u>23E</u>		5. NEAREST P.O. <u>Tombstone</u>		6. COUNTY <u>Cochise</u>								
	7. LAT. <u>31° 45' 00"</u> LONG. <u>110° 00' 00"</u>		8. TOP OF DAM ELEVATION <u>4720</u>		9. SPILLWAY CREST ELEV. <u>4715</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. FLOOD CONTROL										1957		
	b. MULTIPLE USE												
	c. POWER												
	d. WATER SUPPLY ( <u>livestock</u> )		<u>4715</u>		<u>7.7</u>		<u>18</u>		<u>18</u>		16. DATE NORMAL OPER. BEGAN		
	e. IRRIGATION												
	f. CONSERVATION												
	g. INACTIVE										1957		
WATERSHED	17. LENGTH OF RESERVOIR <u>0.15</u> MILES				AV. WIDTH OF RESERVOIR <u>0.08</u> MILES								
	18. TOTAL DRAINAGE AREA <u>0.6</u> SQ. MI.				22. MEAN ANNUAL PRECIPITATION <u>12</u> INCHES								
	19. NET SEDIMENT CONTRIBUTING AREA <u>0.6</u> SQ. MI.				23. MEAN ANNUAL RUNOFF <u>0.75</u> INCHES								
	20. LENGTH <u>1.3</u> MILES		AV. WIDTH <u>0.5</u> MILES		24. MEAN ANNUAL RUNOFF <u>23.9</u> AC.-F.T.								
	21. MAX. ELEV. <u>4930</u>		MIN. ELEV. <u>4705</u>		25. ANNUAL TEMP.: MEAN <u>65°F</u> RANGE <u>20°F--100°F</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/I. RATIO, AC.-FT. PER AC.-FT.		
	June 1961		-	-	Topographic		1 ft.	7.7	18		.75		
	June 1967		6	6	"		"	7.7	17		.71		
	July 1973		6	12	"		"	7.7	16		.67		
	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		
	June 1961		0										
	June 1967		11.3		32.5	81	195.2		32.5		195.2		
	July 1973		11.7		15.2	22	91.2		23.9		286.4		
	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					
	June 1961		-	-	-	-	-	-		-			
June 1967		1.2	0.2	.33	1.2	0.2	.33						
July 1973		.7	0.12	.20	1.9	.16	.26						
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						
June 1961		75	0										
June 1967		75	539	3234									
July 1973		75	327	5196									

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	-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

48. AGENCY MAKING SURVEY \_\_\_\_\_

49. AGENCY SUPPLYING DATA **Soil Conservation Service**

50. DATE \_\_\_\_\_