

RESERVOIR SEDIMENT
DATA SUMMARY

SCS-34 Rev. 5-62

Big Horn Mt. Tank #1
NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

60- 29

DATA SHEET NO.

Unnamed Tributary of

DAM	1. OWNER Jack Clem			2. STREAM Centennial Wash			3. STATE Arizona					
	4. SEC. 27 TWP. 4N RANGE 10W			5. NEAREST TOWN Tonopah			6. COUNTY Maricopa					
	7. STREAM BED ELEVATION 1924*			8. TOP OF DAM ELEVATION 1943.5*			9. SPILLWAY CREST ELEV. 1937.7*					
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										6/60	
	b. FLOOD CONTROL											
	c. POWER											
	d. WATER SUPPLY		1937.7*		3.13		21.30		21.30		16. DATE NORMAL OPER. BEGAN	
	e. IRRIGATION											
	f. CONSERVATION											
	g. SEDIMENT										6/60	
h. INACTIVE												
WATERSHED	17. LENGTH OF RESERVOIR 0.15 MILES				AV. WIDTH OF RESERVOIR 0.033 MILES							
	18. TOTAL DRAINAGE AREA 0.51 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 8.97 (33) INCHES							
	19. NET SEDIMENT CONTRIBUTING AREA 0.51 SQ. MI.				23. MEAN ANNUAL RUNOFF 0.1* INCHES							
	20. LENGTH 1.86 MILES		AV. WIDTH 0.27 MILES		24. MEAN ANNUAL RUNOFF 2.72* AC.-FT.							
	21. MAX. ELEV. 2125*		MIN. ELEV. 1924*		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.			
	6-60		-	-	-	-	3.13	21.30	42.10			
	10-6-64		4.3	4.3	Range (D)	5	3.13	21.06	41.62			
	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			
	10-6-64		6.10									
	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				
	10-6-64		0.24	0.057	0.11	0.24	0.057	0.11				
	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					
10-6-64		47.6 (1)	114.0	114.0	0.27	1.15						

*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
 Emergency spillway has never functioned.
 Land Use in Watershed: 100% Rangeland
 Geology: 100% Cretaceous Andesite and outwash material.

48. AGENCY MAKING SURVEY USDA-SCS, Watershed Planning Party, Phoenix, Arizona
 49. AGENCY SUPPLYING DATA USDA-SCS
 50. DATE 1-25-65