

RESERVOIR SEDIMENT
DATA SUMMARY

SCS-34 Rev. 6-62

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

Big Horn Mt. Tank #2
NAME OF RESERVOIR

60-30

DATA SHEET NO.

Unnamed Tributary

DAM	1. OWNER Jack Clem			2. STREAM OF Centennial Wash			3. STATE Arizona									
	4. SEC. 31 TWP. 4N RANGE 8W			5. NEAREST TOWN Tonopah			6. COUNTY Maricopa									
	7. STREAM BED ELEVATION 1915*			8. TOP OF DAM ELEVATION 1934.0*			9. SPILLWAY CREST ELEV. 1930.4*									
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		1930.4*		2.46		11.46		11.46		16. DATE NORMAL OPER. BEGAN					
	e. IRRIGATION															
	f. CONSERVATION															
	g. SEDIMENT										6/60					
h. INACTIVE																
WATERSHED	17. LENGTH OF RESERVOIR 0.14 MILES				AV. WIDTH OF RESERVOIR 0.027 MILES											
	18. TOTAL DRAINAGE AREA 0.44 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 8.97 (33) INCHES											
	19. NET SEDIMENT CONTRIBUTING AREA 0.44 SQ. MI.				23. MEAN ANNUAL RUNOFF 0.1* INCHES											
	20. LENGTH 1.52 MILES		AV. WIDTH 0.29 MILES		24. MEAN ANNUAL RUNOFF 2.35* AC.-FT.											
	21. MAX. ELEV. 2320*		MIN. ELEV. 1915*		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		-		-		-		-		2.46		11.46		2605	
	10-6-64		4.3		4.3		Range (D)		6		2.46		11.26		25.59	
	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		0.20		0.047		0.11		0.20		0.047		0.11			
	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		
10-6-64		50*		120		120		0.41		1.75						

*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% Range land
 Geology: 100% Cretaceous Andesite

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