

RESERVOIR SEDIMENT
DATA SUMMARY

Horsethief Basin

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

60-43

DATA SHEET NO.

DAM	1. OWNER U.S. Forest Service		2. STREAM Horsethief Canyon		3. STATE Arizona	
	4. SEC. 31 TWP. RANGE 1E		5. NEAREST P.O. Crown King		6. COUNTY Yavapai	
	7. LAT 12° 18' " LONG. 34° 11' "		8. TOP OF DAM ELEVATION		9. SPILLWAY CREST ELEV.	
RESERVOIR	10. STORAGE ALLOCATION		12. ORIGINAL SURFACE AREA, ACRES		13. ORIGINAL CAPACITY, ACRE-Feet	
	11. ELEVATION TOP OF POOL		14. GROSS STORAGE, ACRE-Feet		15. DATE STORAGE BEGAN	
	a. FLOOD CONTROL				1934	
	b. MULTIPLE USE					
	c. POWER					
	d. WATER SUPPLY				16. DATE NON-MAL OPER. BEGAN	
	e. IRRIGATION					
	f. CONSERVATION				1935	
WATERSHED	17. LENGTH OF RESERVOIR 0.13 MILES		AV. WIDTH OF RESERVOIR 0.04 MILES			
	18. TOTAL DRAINAGE AREA 0.85 SQ. MI.		22. MEAN ANNUAL PRECIPITATION 27.0 INCHES			
	19. NET SEDIMENT CONTRIBUTING AREA 0.85 SQ. MI.		23. MEAN ANNUAL RUNOFF 2.11 INCHES			
	20. LENGTH 1.4 MILES		AV. WIDTH 0.61 MILES		24. MEAN ANNUAL RUNOFF 96 AC.-FT.	
	21. MAX. ELEV. 7,200'		MIN. ELEV. 6,050'		25. ANNUAL TEMP: MEAN RANGE	
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.			
	1934		0		0	
	11/69		36		36	
	Contour (D)		2'		3.87	
	Contour (R)		2'		3.51	
					42.4	
					35.6	
					0.44	
				0.37		
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		
26. DATE OF SURVEY		37. PERIOD CAPACITY LOSS, ACRE-Feet			38. TOTAL SED. DEPOSITS TO DATE, ACRE-Feet	
		a. PERIOD TOTAL			a. TOTAL TO DATE	
		b. AV. ANNUAL			b. AV. ANNUAL	
		c. PER SQ. MI.-YEAR			c. PER SQ. MI.-YEAR	
1934					0	
11/69		6.8			6.8	
		0.19			0.19	
		0.22			0.22	
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		a. AV. ANN		
		b. TOTAL TO DATE		b. TOT. TO DATE		
				a. PERIOD		
				b. TOT. TO DATE		

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 *Forest Service* Prescott National Forest
 49. AGENCY SUPPLYING DATA
 50. DATE 10/5/71