

RESERVOIR SEDIMENT DATA SUMMARY

Upper Gila Valley Site 1 <sup>1/</sup>  
NAME OF RESERVOIR

DATA SHEET NO.

DAM	1. OWNER			2. STREAM Northrup Canyon			3. STATE NM					
	4. SEC. 26 TWP. 15S RANGE 17W			5. NEAREST P.O. Gila, NM			6. COUNTY Grant					
	7. LAT. 32° 58' 0" LONG. 108° 33' 54"			8. TOP OF DAM ELEVATION 4652.2			9. SPILLWAY CREST ELEV. 4649.2					
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		4649.2		10.0		91.4 <sup>1/</sup>		91.4		4/30/62	
	b. MULTIPLE USE											
	c. POWER											
	d. WATER SUPPLY										16. DATE NORMAL OPER. BEGAN	
	e. IRRIGATION											
	f. CONSERVATION		4639.4		3.5		26.0 <sup>1/</sup>		26.0			
g. INACTIVE												
WATERSHED	17. LENGTH OF RESERVOIR 0.24 MILES				AV. WIDTH OF RESERVOIR 0.07 MILES							
	18. TOTAL DRAINAGE AREA 1.09 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 16 INCHES							
	19. NET SEDIMENT CONTRIBUTING AREA 1.07 SQ. MI.				23. MEAN ANNUAL RUNOFF 0.4 INCHES							
	20. LENGTH 2.0 MILES		AV. WIDTH 0.55 MILES		24. MEAN ANNUAL RUNOFF 23.3 AC.-FT.							
	21. MAX. ELEV. 4960		MIN. ELEV. 4640		25. ANNUAL TEMP.: MEAN 56 RANGE 0-108							
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.		
	4/30/62		0	0	Contour			10.0	91.4 <sup>1/</sup>	3.92		
	8/27/69		7.3	7.3	Reconn.			10.0	75.3	3.23		
	9/8/97		28.0	35.3	Contour		2 ft	10.0	67.6	2.90		
	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	b. AV. ANNUAL	c. PER SQ. MI.-YEAR	a. TOTAL TO DATE	b. AV. ANNUAL	c. PER SQ. MI.-YEAR				
	8/27/69		16.1	2.21	2.07	16.1	2.21	2.07				
9/8/97		7.7	0.28	0.26	23.8	0.67	0.63					
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			
8/27/69						2.4	17.6					
9/8/97		68.4 <sup>2/</sup>		387	939	0.7	26.0					

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

REMARKS AND REFERENCES

1/ Original capacity value has been adjusted to reflect the volume removed as borrow excavation.

2/ Average of three samples.

48. AGENCY MAKING SURVEY Natural Resources Conservation Service

49. AGENCY SUPPLYING DATA " " "

50. DATE 2/19/97