

RESERVOIR SEDIMENTATION
DATA SUMMARY

MAGMA #3

60 -19

NAME OF RESERVOIR

DATA SHEET NO.

DAM	1. OWNER Ellsworth			2. RIVER Magma Wash			3. STATE Arizona			
	4. SEC. 22 TWP. 3S RANGE 9E			5. NEAREST TOWN Florence			6. COUNTY Pinal			
	7. STREAM BED ELEV.			8. TOP OF DAM ELEV.			9. SPILLWAY CREST ELEV. 1,620			
RESERVOIR	10. STORAGE ALLOCATION	11. ELEVATION TOP OF POOL	12. SURFACE AREA ACRES	13. STORAGE ACRE- FEET	14. ACCUMULATED ACRE- FEET	15. DATE STORAGE BEGAN				
	a. FLOOD CONTROL					1949				
	b. POWER									
	c. WATER SUPPLY		.95	6.0		16. DATE NORMAL OPER BEGAN				
	d. IRRIGATION									
	e. CONSERVATION					1949				
	f. INACTIVE									
17. LENGTH OF RESERVOIR			MILES	AV. WIDTH OF RESERVOIR		MILES				
WATERSHED	18. TOTAL DRAINAGE AREA 21.9			SQ. MI.	22. MEAN ANNUAL PRECIPITATION 9.7		INCHES			
	19. NET SEDIMENT CONTRIBUTING AREA 7.0*			SQ. MI.	23. MEAN ANNUAL RUNOFF 0.34		INCHES			
	20. LENGTH 15.1		MILES	AV. WIDTH 1.8		MILES	24. MEAN ANNUAL RUNOFF 126.9		AC.-FT.	
	21. MAX. ELEV. 3,000		MIN. ELEV. 1,620		25. CLIMATIC CLASSIFICATION Arid					
	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.		
May 1949 May 1959	10	10	Range	6	0.95 0.93	6.0 3.8	.27 .17			
SURVEY DATA	26. DATE OF SURVEY	34. PERIOD ANNUAL PRECIPITATION	35. PERIOD WATER INFLOW ACRE- FEET			36. WATER INFL. TO DATE AC.-FT.				
	May 1959		a. MEAN ANNUAL	b. MAX. ANNUAL	c. PERIOD TOTAL	a. MEAN ANNUAL	b. TOTAL TO DATE			
26. DATE OF SURVEY	37. PERIOD SEDIMENT DEPOSITS ACRE- FEET			38. TOTAL SED. DEPOSITS TO DATE ACRE- FEET.						
May 1959	a. PERIOD TOTAL	b. AV. ANNUAL	c. PER SQ. MI.-YEAR	a. TOTAL TO DATE	b. AV. ANNUAL	c. PER SQ. MI.-YEAR				
	2.2	0.23	0.01	2.2	0.22	0.01				
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. ANNUAL	b. TOT. TO DATE	a. PERIOD	b. TOT. TO DATE			
May 1959	75*	17.42	17.42	3.67	36.66					

* Estimated

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

**SOIL CONSERVATION SERVICE
TUSCON, ARIZONA**

48. AGENCY SUPPLYING DATA

49. DATE Dec. 19, 1960

U.S. DEPARTMENT OF AGRICULTURE
**RESERVOIR SEDIMENTATION
 DATA SUMMARY**

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SOIL CONSERVATION SERVICE
60 -19a
 DATA SHEET NO.

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May 1959		2.2		0.23		0.03		2.2		0.22		0.03																								
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. ANNUAL		b. TOT. TO DATE		a. PERIOD		b. TOT. TO DATE																						
May 1959		75*		49		49		3.67		36.66																										

* Estimated

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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

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