

RESERVOIR SEDIMENTATION  
DATA SUMMARY

Magma #2

60-18

NAME OF RESERVOIR

DATA SHEET NO.

DAM	1. OWNER <b>Ellsworth</b>			2. RIVER <b>Magma Wash</b>			3. STATE <b>Arizona</b>			
	4. SEC. <b>11</b> TWP. <b>4S</b> RANGE <b>9E</b>			5. NEAREST TOWN <b>Florence</b>			6. COUNTY <b>Pinal</b>			
	7. STREAM BED ELEV.			8. TOP OF DAM ELEV.			9. SPILLWAY CREST ELEV.			
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					Feb. 1954				
	b. POWER									
	c. WATER SUPPLY	1550	0.379	1.6	1.6	16. DATE NORMAL OPER. BEGAN				
	d. IRRIGATION									
	e. CONSERVATION					Feb. 1954				
	f. INACTIVE									
17. LENGTH OF RESERVOIR		MILES		AV. WIDTH OF RESERVOIR		MILES				
WATERSHED	18. TOTAL DRAINAGE AREA <b>0.38</b>			SQ. MI.		22. MEAN ANNUAL PRECIPITATION <b>9.7</b>			INCHES	
	19. NET SEDIMENT CONTRIBUTING AREA <b>0.38</b>			SQ. MI.		23. MEAN ANNUAL RUNOFF <b>0.34</b>			INCHES	
	20. LENGTH <b>.35</b>		MILES		AV. WIDTH <b>.30</b>		MILES		24. MEAN ANNUAL RUNOFF <b>6.9</b>	
									AC.-FT.	
	21. MAX. ELEV <b>1,600</b>		MIN. ELEV. <b>1,550</b>		25. CLIMATIC CLASSIFICATION <b>Arid</b>					
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.		
	Feb., 1954	-	-	-	-	0.38	1.6	4.21		
	May, 1959	5.4	5.4	Range	5	0.38	1.3	3.42		
	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	d. MEAN ANNUAL	e. TOTAL TO DATE			
	May, 1959	9.7								
	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	d. TOTAL TO DATE	e. AV. ANNUAL	f. PER SQ. MI.-YEAR			
	May, 1959	0.30	0.06	0.15	0.30	0.06	0.15			
	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	85*	278	278	4.4	23.5					

\*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
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  
Tucson, Arizona

48. AGENCY SUPPLYING DATA \_\_\_\_\_ 49. DATE 12/19/60