

Edmore & Mabeone
sedimentaries

U.S. DEPARTMENT OF AGRICULTURE

SOIL CONSERVATION SERVICE

RESERVOIR SEDIMENTATION
DATA SUMMARY

St. Mary's
NAME OF RESERVOIR

71-19

DATA SHEET NO.

DAM	1. OWNER CCC Flood Contr. Dist.			2. RIVER Walnut Creek			3. STATE California					
	4. SEC. TWP. Long 38 RANGE Lat. 122			5. NEAREST TOWN Walnut Creek			6. COUNTY Contra Costa					
	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					1928						
	b. POWER											
	c. WATER SUPPLY		9.21	134.01	134.01	16. DATE NORMAL OPER. BEGAN						
	d. IRRIGATION											
	e. CONSERVATION											
	f. INACTIVE					1928						
17. LENGTH OF RESERVOIR .19			MILES			17. AV. WIDTH OF RESERVOIR .07			MILES			
WATERSHED	18. TOTAL DRAINAGE AREA 3.11			SQ. MI.			22. MEAN ANNUAL PRECIPITATION 19			INCHES		
	19. NET SEDIMENT CONTRIBUTING AREA 2.97			SQ. MI.			23. MEAN ANNUAL RUNOFF			INCHES		
	20. LENGTH			MILES			24. MEAN ANNUAL RUNOFF			AC-FT.		
	21. MAX. ELEV.			MIN. ELEV.			25. CLIMATIC CLASSIFICATION Semi-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.				
	1928	-	-	-	-	9.21	134.01	43.0				
	1951	23	23	Range Detailed	4	8.11	88.59	28.4				
	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 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					
	1951	45.42	1.97	0.66	45.42	1.97	0.66					
	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.					
1951	45	647	647	1.47	33.89	-	-					

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

Ref: Walnut Creek Watershed Program for Soil Conservation and Flood Control." Contra Costa County, Calif. Flood Control and Water Conservation District in cooperation with Soil Conservation Service, Sept. 1952, processed.

48. AGENCY SUPPLYING DATA SCS, Portland, Oregon

49. DATE Nov. 15, 1954