

RESERVOIR SEDIMENT
DATA SUMMARY

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

SCS-34 Rev. 6-66

Matanzas
NAME OF RESERVOIR

72 - 34
DATA SHEET NO.

DAM	1. OWNER Sonoma County			2. STREAM Matanzas			3. STATE California					
	4. SEC. 32 TWP. 7N RANGE 7W			5. NEAREST P. O. Santa Rosa			6. COUNTY Sonoma					
	7. LAT. 38° 56' 40" LONG. 122° 54' 20"			8. TOP OF DAM ELEVATION 425.0			9. SPILLWAY CREST ELEV. 410					
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		410		58		1281		1500		June 1964	
	b. MULTIPLE USE											
	c. POWER											
	d. WATER SUPPLY										June 1964	
	e. IRRIGATION											
	f. CONSERVATION		375		12		219		219			
g. INACTIVE												
WATERSHED	17. LENGTH OF RESERVOIR 1.23 MILES				AV. WIDTH OF RESERVOIR 0.07 MILES							
	18. TOTAL DRAINAGE AREA 11.6 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 31 INCHES							
	19. NET SEDIMENT CONTRIBUTING AREA 11.5 SQ. MI.				23. MEAN ANNUAL RUNOFF 20 INCHES							
	20. LENGTH 5.3 MILES		AV. WIDTH 2.2 MILES		24. MEAN ANNUAL RUNOFF 12,373 AC.-FT.							
	21. MAX. ELEV. 1527		MIN. ELEV. 330		25. ANNUAL TEMP: MEAN 57 RANGE 46-67							
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.	
	June 1964		---	---	---	-----	58 (12)		1500 (219)		0.121 (0.018)	
	March 1972		9	9	Range	15	60 (13.3)		1411 (142)		0.114 (0.011)	
	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		
	March		89 (77)	9.89 (8.56)	.86 (.74)	89 (77)		9.89 (8.56)		.86 (.74)		
	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					
March 1972		90 (70)	1686 (1128)	1686 (1128)	0.67 (3.9)	5.9 (35)						

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														
March 1972	1.6 SEG. 1 115 FT.	6.7 SEG. 2 308 FT.	10.0 SEG. 3 548 FT.	7.0 SEG. 4 738 FT.	5.4 SEG. 5 893 FT.	8.5 SEG. 6 1063 FT.	11.2 SEG. 7 1253 FT.	7.6 SEG. 8 1364 FT.	15.4 SEG. 9 1604 FT.	3.5 SEG. 10 1779 FT.	9.7 SEG. 11 2079 FT.	7.8 SEG. 12 2369 FT.	2.6 SEG. 13 2579 FT.	1.7 SEG. 14 2694 FT.	1.3 SEG. 15 2917 FT.

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

1. Figures in parenthesis pertain to sediment pool.
2. About 75 percent of the deposit is clay and silt and the remaining 25 percent is silty sand, sand and gravel.
3. Average dry unit weight of all the sediment in the reservoir is 70 PCF or 1525 tons per acre-foot.

48. AGENCY MAKING SURVEY USDA/Soil Conservation Service
49. AGENCY SUPPLYING DATA USDA/Soil Conservation Service

50. DATE 3/22/76

RESERVOIR SEDIMENT DATA SUMMARY

Matanzas

NAME OF RESERVOIR

72 - 34a

DATA SHEET NO.

DAM	1. OWNER Sonoma County			2. STREAM Matanzas			3. STATE California									
	4. SEC. 32 TWP. 7N RANGE 7W			5. NEAREST P.O. Santa Rosa			6. COUNTY Sonoma									
	7. LAT 38° 23' 53" LONG. 122 39 27"			8. TOP OF DAM ELEVATION 425.0			9. SPILLWAY CREST ELEV. 410									
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		410		58		1,281		1,500		June 1964					
	b. MULTIPLE USE															
	c. POWER															
	d. WATER SUPPLY										16. DATE NORMAL OPER. BEGAN					
	e. IRRIGATION															
	f. CONSERVATION		375		12		219		219		June 1964					
g. INACTIVE																
17. LENGTH OF RESERVOIR 0.38			MILES			AV. WIDTH OF RESERVOIR 0.07			MILES							
WATERSHED	18. TOTAL DRAINAGE AREA 11.6				SQ. MI.				22. MEAN ANNUAL PRECIPITATION 31				INCHES			
	19. NET SEDIMENT CONTRIBUTING AREA 11.5				SQ. MI.				23. MEAN ANNUAL RUNOFF 20				INCHES			
	20. LENGTH 5.3		MILES		AV. WIDTH 2.2		MILES		24. MEAN ANNUAL RUNOFF 12,373				AC.-FT.			
	21. MAX. ELEV. 1,527				MIN. ELEV. 330				25. ANNUAL TEMP.: MEAN 57				RANGE 46-67			
	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.	
June 1964		--		--		--		--		58 (12)		1,500 (219)		0.121 (0.018)		
March 1972		7.75		7.75		Range		15		60 (13.3)		1,411 (142)		0.114 (0.011)		
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				
March 1972		89 (77)		11.48 (9.94)		1.0 (0.86)		89 (77)		11.48 (9.94)		1.0 (0.86)				
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		
March 1972		90 (70)		1960 (1,311)		1960 (1,311)		0.77 4.54		5.9 35.2						

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
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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							
47. REMARKS AND REFERENCES															
<ol style="list-style-type: none"> Figures in parenthesis pertain to sediment pool. About 75 percent of the deposit is clay and silt and the remaining 25 percent is silty sand, sand and gravel. Average dry unit weight of all the sediment in the reservoir is 70 PCF or 1525 tons per acre-foot. 															
48. AGENCY MAKING SURVEY Soil Conservation Service															
49. AGENCY SUPPLYING DATA Soil Conservation Service															
50. DATE May 7, 1981															