

RESERVOIR SEDIMENTATION
DATA SUMMARY

East Park
NAME OF RESERVOIR

72-7
DATA SHEET NO.

DAM	1. OWNER USDI, Bur. of Reclamation			2. RIVER Little Stoney Creek			3. STATE California							
	4. SEC. 34 TWP. 18 N RANGE 6 W			5. NEAREST TOWN Stoney Ford & Lodoga			6. COUNTY Colusa							
	7. STREAM BED ELEV. 1104			8. TOP OF DAM ELEV. 1202			9. SPILLWAY CREST ELEV. 1198							
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					Dec. 1910								
	b. POWER													
	c. WATER SUPPLY													
	d. IRRIGATION	1,198	1,694	41,098	41,098	16. DATE NORMAL OPER. BEGAN								
	e. CONSERVATION													
	f. INACTIVE													
17. LENGTH OF RESERVOIR		MILES		AV. WIDTH OF RESERVOIR		MILES								
WATERSHED	18. TOTAL DRAINAGE AREA 101.5			SQ. MI.			22. MEAN ANNUAL PRECIPITATION 17-55			INCHES				
	19. NET SEDIMENT CONTRIBUTING AREA 98.9			SQ. MI.			23. MEAN ANNUAL RUNOFF			INCHES				
	20. LENGTH		MILES		AV. WIDTH		MILES		24. MEAN ANNUAL RUNOFF				AC.-FT.	
	21. MAX. ELEV. 7,000		MIN. ELEV. 1,104		25. CLIMATIC CLASSIFICATION Semi-arid to humid									
	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.					
Dec. 1910		-	-	-	-	1,694	41,098	405						
Feb. 1946		35.2	35.2	Range Detailed	21	1,694	40,439	398						
SURVEY DATA	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							
	Feb. 1946	659	18.7	0.189	659	18.7	0.189							
	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						
	Feb. 1946	56 (13)	231	231	0.05	1.60								

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														
Brown, C. B., and Thorp, E. M. Reservoir sedimentation in the Sacramento-San Joaquin Drainage Basins, California. U.S. Soil Conserv. Serv., Spec. Rpt. 10, 69 pp., illus., processed, Washington, D.C. July 1947.														
Region 7, Soil Conservation Service U. S. Department of Agriculture														
48. AGENCY SUPPLYING DATA Portland, Oregon				49. DATE February 19, 1951										

**RESERVOIR SEDIMENTATION
DATA**

East Park

72-7a

Dept. of Interior NAME OF RESERVOIR

DATA SHEET NO.

DAM	1. OWNER U.S. Bur. of Reclamation/			2. RIVER Little Stony Creek			3. STATE California		
	4. SEC. 34 TWP. 18N. RANGE 6W			5. NEAREST TOWN Stonyford			6. COUNTY Colusa		
	7. STREAM BED ELEV. 1104			8. TOP OF DAM ELEV. 1,202			9. SPILLWAY CREST ELEV. 1,198		
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					Dec. 1910			
	b. POWER								
	c. WATER SUPPLY					16. DATE NORMAL OPER. BEGAN			
	d. IRRIGATION	1,198	1,698	48,000 ^{1/}	48,000 ^{1/}				
	e. CONSERVATION								
f. INACTIVE									
WATERSHED	17. LENGTH OF RESERVOIR			MILES: AV. WIDTH OF RESERVOIR			MILES		
	18. TOTAL DRAINAGE AREA 101.5 ^{2/}			SQ. MI.			22. MEAN ANNUAL PRECIPITATION 19-50+		
	19. NET SEDIMENT CONTRIBUTING AREA 98.9			SQ. MI.			23. MEAN ANNUAL RUNOFF		
	20. LENGTH MILES: AV. WIDTH			MILES			24. MEAN ANNUAL RUNOFF		
	21. MAX. ELEV. 7,000			MIN. ELEV. 1,104			25. CLIMATIC CLASSIFICATION Semi-arid to humid		
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.	
	Dec. 1910 May 1960	-- 49.4	-- 49.4	-- Range(D)	-- 21	1,698 1,707	48,000 ^{1/} 39,240	473 --	
SURVEY DATA	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		
SURVEY DATA	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.-YR.	a. TOTAL TO DATE	b. AV. ANNUAL	c. PER SQ. MI.-YR.		
SURVEY DATA	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. TO DATE	a. PERIOD	b. TO DATE	
SURVEY DATA	May 1960	55	2,144 ^{3/}	2,144 ^{3/}	0.369	18.2	--	--	

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

1/ Spillway elevation (flashboard crest elevation capacity 50,600); U. S. Bureau of Reclamation capacity curve (12-1-37); U.S.G.S. Water Supply Paper 1635, Part 11.

2/ The natural drainage area. Flow diverted into the reservoir from Stony Gorge drainage basin after the year 1914.

3/ Based on the natural drainage area.

48. AGENCY SUPPLYING DATA U. S. Geological Survey, Water Resources DATE October, 1961
 Division, Branch of Quality of Water, Sacramento, California

RESERVOIR SEDIMENT
DATA SUMMARY

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

East Park

SCS-34 Rev. 6-66

NAME OF RESERVOIR

72-7 b
DATA SHEET NO.

Dept of Interior

DAM	1. OWNER U. S. Bur. of Reclamation				STREAM Stony Creek		3. STATE California									
	4. SEC. 34		TWP. 18N	RANGE 6W	5. NEAREST P. O. Stonyford		6. COUNTY Colusa									
	7. LAT. " "		" " LONG. " "		8. TOP OF DAM ELEVATION 1,202		9. SPILLWAY CREST ELEV. 1,198									
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										Dec. 1910					
	b. MULTIPLE USE															
	c. POWER										16. DATE NORMAL OPER. BEGAN					
	d. WATER SUPPLY															
	e. IRRIGATION		1,198		1,698		1 50,900		1 50,900							
	f. CONSERVATION															
	g. INACTIVE															
17. LENGTH OF RESERVOIR 2 MILES					AV. WIDTH OF RESERVOIR MILES											
WATERSHED	18. TOTAL DRAINAGE AREA 101.5 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 19-50+ INCHES											
	19. NET SEDIMENT CONTRIBUTING AREA 98.9 SQ. MI.				23. MEAN ANNUAL RUNOFF 11.29 INCHES											
	20. LENGTH MILES		AV. WIDTH MILES		24. MEAN ANNUAL RUNOFF 61,130 AC.-F.T.											
	21. MAX. ELEV. 7,000		MIN. ELEV. 1,104		25. ANNUAL TEMP.: MEAN RANGE											
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.	
	Dec. 1910		--		--		--		--		1,698		1 50,900		--	
	Nov. 1962		52.0		52.0		Range (D)		21		1,707		48,940		0.80	
	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			
	Nov. 1962 (1920-61)		--		61,130		--		--		61,130		--			
	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			
	Nov. 1962		1,960		38		3 0.37		1,960		38		3 0.37			
	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		
Nov. 1962		55		3 443		3 443		0.07		3.85		--		--		

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

47. REMARKS AND REFERENCES

1 Spillway elevation (flashboard crest elevation capacity 50,900); USGS Water-Supply Paper 1798-F.

2 The natural drainage area. Flow diverted into the reservoir from Stony Gorge₃ drainage basin after the year 1914.

3 Based on the natural drainage area.

Knott, J.M., and Dunnam, C.A., 1969, Sedimentation in upper Stony Creek basin, eastern flank of the coast ranges of northern California: U.S. Geol. Sur. Water-Supply Paper 1798-F, 35 p.

48. AGENCY MAKING SURVEY

49. AGENCY SUPPLYING DATA U.S. Geol. Survey, Water Resources⁸ DATE August 1971