

RESERVOIR SEDIMENTATION
DATA SUMMARY

Lee Higgins Pond

71-27

NAME OF RESERVOIR

DATA SHEET NO.

DAM	1. OWNER Lee Higgins			2. RIVER Marsh Creek			3. STATE California									
	4. SEC. TWP. 1 N RANGE 2E			5. NEAREST TOWN Brentwood			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								1941							
	b. POWER															
	c. WATER SUPPLY		2.12		12.60		12.60		16. DATE NORMAL OPER. BEGAN							
	d. IRRIGATION															
	e. CONSERVATION															
	f. INACTIVE								1941							
WATERSHED	17. LENGTH OF RESERVOIR				MILES		18. AV. WIDTH OF RESERVOIR				MILES					
	18. TOTAL DRAINAGE AREA				0.202		SQ. MI.		22. MEAN ANNUAL PRECIPITATION				19		INCHES	
	19. NET SEDIMENT CONTRIBUTING AREA				0.199		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.						
	1941	-	-	-	-	2.12		12.60		62.37						
	10/23/53	11	11	Range Detailed	11	2.12		12.28		60.79						
	26. DATE OF SURVEY	34. PERIOD ANNUAL PRECIPITATION		35. PERIOD WATER INFLOW ACRE- FEET			36. WATER INFL. TO DATE AG-FT.									
				a. MEAN ANNUAL	b. MAX. ANNUAL	c. PERIOD TOTAL		d. MEAN ANNUAL		e. 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		d. TOTAL TO DATE		e. AV. ANNUAL		f. PER SQ. MI.-YEAR				
	10/23/53	.319		.029		0.15		.319		0.29		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		c. PERIOD	d. TOT. TO DATE				
10/23/53	40*		130.68		130.68		0.23		2.53		-	-				

*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

Ref: Marsh Creek and Kellogg Creek Watershed Program, 1954, unpublished.

48. AGENCY SUPPLYING DATA SCS, Portland, Oregon 49. DATE Nov. 15, 1954

RESERVOIR SEDIMENT
DATA SUMMARY
SCS-34 Rev. 6-62

Lee Higgins Pond
NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

71-27 a
DATA SHEET NO.

DAM	1. OWNER Lee Higgins		2. STREAM Marsh Creek		3. STATE California				
	4. SEC. TWP. 1N RANGE 2E		5. NEAREST TOWN Brentwood		6. COUNTY Contra Costa				
	7. STREAM BED ELEVATION		8. TOP OF DAM ELEVATION		9. SPILLWAY CREST ELEV.				
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. MULTIPLE USE					1941			
	b. FLOOD CONTROL								
	c. POWER								
	d. WATER SUPPLY		2.12	12.60	12.60	16. DATE NORMAL OPER. BEGAN			
	e. IRRIGATION					1941			
	f. CONSERVATION								
	g. SEDIMENT								
	h. INACTIVE								
17. LENGTH OF RESERVOIR			MILES	AV. WIDTH OF RESERVOIR		MILES			
WATERSHED	18. TOTAL DRAINAGE AREA		0.202	SQ. MI.	22. MEAN ANNUAL PRECIPITATION		19	INCHES	
	19. NET SEDIMENT CONTRIBUTING AREA		0.199	SQ. MI.	23. MEAN ANNUAL RUNOFF			INCHES	
	20. LENGTH		MILES	AV. WIDTH		MILES	24. MEAN ANNUAL RUNOFF		AC.-FT.
	21. MAX. ELEV.		MIN. ELEV.		25. CLIMATIC CLASSIFICATION				semi-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.	
1941	--	--	--	--	2.12	12.60	62.37		
Oct. 23, 1953	12	12	Range Detailed	11	2.12	12.28	60.79		
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			
Oct. 23, 1953	.319	.027	0.14	.319	.027	0.14			
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. AN.	b. TOT. TO DATE	a. PERIOD	b. TOT. TO DATE		
Oct. 23, 1953	40 ^{1/}	122	122	0.23	2.53	--	--		

1/ 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

Ref: Marsh Creek and Kellogg Creek Watershed Program, 1954,
unpublished.

48. AGENCY MAKING SURVEY SCS
49. AGENCY SUPPLYING DATA SCS, Portland, Oregon

50. DATE Nov. 15, 1954