

RESERVOIR SEDIMENT
DATA SUMMARY

DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS

PICKENS DEBRIS BASIN

NAME OF RESERVOIR

70-52a

DATA SHEET NO.

DAM	1. OWNER LACFCD			2. STREAM Pickens Canyon			3. STATE California								
	4. SEC. Land TWP. Grant RANGE			5. NEAREST P O La Crescenta			6. COUNTY Los Angeles								
	7. LAT 34° 13' 45" LONG 118° 14' 30"			8. TOP OF DAM ELEVATION 1613.0			9. SPILLWAY CREST ELEV. 1600.0								
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														
	b. MULTIPLE USE														
	c. POWER														
	d. WATER SUPPLY										16. DATE NORMAL OPER. BEGAN				
	e. IRRIGATION										Nov 35				
	f. CONSERVATION														
g. INACTIVE															
17. LENGTH OF RESERVOIR 0.09			MILES			AV. WIDTH OF RESERVOIR 0.03			MILES						
WATERSHED	18. TOTAL DRAINAGE AREA 1.84				SQ. MI.		22. MEAN ANNUAL PRECIPITATION 27.8				INCHES				
	19. NET SEDIMENT CONTRIBUTING AREA 1.84				SQ. MI.		23. MEAN ANNUAL RUNOFF				INCHES				
	20. LENGTH 2.88		MILES		AV. WIDTH 0.64		MILES		24. MEAN ANNUAL RUNOFF				AC.-F.T.		
	21. MAX. ELEV. 4750		MIN. ELEV. 1587		25. ANNUAL TEMP MEAN 62.2°				RANGE 48.8° - 75.6°						
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.		
	Sep 52		2	17											
	Sep 59		7	24											
	Sep 66		7	31											
	Sep 70		4	35											
	Sep 73		3	38											
	Sep 77		4	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		a. MEAN ANNUAL		b. TOTAL TO DATE		
	Sep 52		30.77		No record of inflow										
Sep 59		22.52													
Sep 66		22.42													
Sep 70		34.78													
Sep 73		25.53													
Sep 77		18.88													
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			
Sep 52		8.29		4.14		2.25		200.09		11.77		6.40			
Sep 59		36.2		5.17		2.81		263.3		9.84		5.35			
Sep 66		44.0		6.28		3.41		280.3		9.04		4.91			
Sep 70		32.7		8.18		4.44		313.0		8.94		4.86			
Sep 73		13.45		4.48		2.44		326.45		8.59		4.67			
Sep 77		6.45		1.61		.88		332.9		7.93		4.31			
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	

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/ Item 25 - Temperature taken at Pasadena, California.
 2/ Item 32 - Capacity of debris basin varies. Debris excavated at various times.
 3/ Item 37 - Sediment values as computed by LACFCD are sediment removed from basin and are based on complete water year.

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DATA SUMMARY

DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS

PICKENS DEBRIS BASIN

NAME OF RESERVOIR

70-52b

DATA SHEET NO.

DAM	1. OWNER LACFC			2. STREAM Pickens			3. STATE California						
	4. SEC. Land TWP. Brant RANGE			5. NEAREST P.O. La Crescenta			6. COUNTY Los Angeles						
	7. LAT. 34° 13' 45" LONG. 118° 14' 30"			8. TOP OF DAM ELEVATION 1613.0			9. SPILLWAY CREST ELEV. 1600.0						
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												
	b. MULTIPLE USE												
	c. POWER												
	d. WATER SUPPLY										16. DATE NORMAL OPER. BEGAN		
	e. IRRIGATION										Nov 1935		
	f. CONSERVATION												
	g. INACTIVE												
WATERSHED	17. LENGTH OF RESERVOIR .09 MILES				AV. WIDTH OF RESERVOIR .03 MILES								
	18. TOTAL DRAINAGE AREA 1.84 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 27.8 INCHES								
	19. NET SEDIMENT CONTRIBUTING AREA 1.84 SQ. MI.				23. MEAN ANNUAL RUNOFF INCHES								
	20. LENGTH 2.88 MILES		AV. WIDTH .64 MILES		24. MEAN ANNUAL RUNOFF AC.-FT.								
	21. MAX. ELEV. 4750		MIN. ELEV. 1587		25. ANNUAL TEMP. MEAN 62.2° RANGE 48.8°-75.6°								
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.			
	Nov 1935							2/					
	Sep 1936		1	1									
	Sep 1937		1	2									
	Sep 1938		1	3									
	Sep 1939		1	4									
	Sep 1940		1	5									
	Sep 1941		1	6									
	Sep 1943		2	8									
	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		
	Sep 1936		21.1		No record of inflow.								
	Sep 1937		40.0										
	Sep 1938		44.7										
	Sep 1939		29.3										
Sep 1940		22.8											
Sep 1941		55.0											
Sep 1943		32.4											
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						
Sep 1936		20.2	20.2	11.0	20.2	11.0	6.0						
Sep 1937		12.7	12.7	6.89	32.9	16.4	8.9						
Sep 1938		82.7	82.7	44.9	115.6	38.5	20.9						
Sep 1939		5.4	5.4	2.95	121.0	30.2	16.4						
Sep 1940		8.4	8.4	4.57	129.4	25.9	14.1						
Sep 1941		21.4	21.4	11.6	150.8	25.1	13.6						
Sep 1943		33.2	16.6	9.03	184.0	23.0	12.5						
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						

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/ Item 25 - Temperature taken at Pasadena, California.
 2/ Item 32 - Capacity of Debris Basin varies. Debris excavated at various times.
 3/ Item 37.- Sedimentation values computed by LACFCD are based on complete water years.

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DATA SUMMARY

DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS

PICKENS DEBRIS BASIN

NAME OF RESERVOIR

70-52b

DATA SHEET NO.

DAM	1. OWNER LACFCO			2. STREAM Pickens			3. STATE California									
	4. SEC. Land TWP. Grant RANGE			5. NEAREST P. O. La Crescenta			6. COUNTY Los Angeles									
	7. LAT. 34° 13' 45" LONG 118° 14' 30"			8. TOP OF DAM ELEVATION 1613.0			9. SPILLWAY CREST ELEV. 1600.0									
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															
	b. MULTIPLE USE															
	c. POWER															
	d. WATER SUPPLY										16. DATE NORMAL OPER. BEGAN					
	e. IRRIGATION										Nov 1935					
	f. CONSERVATION															
g. INACTIVE																
WATERSHED	17. LENGTH OF RESERVOIR .09 MILES				AV. WIDTH OF RESERVOIR .03 MILES											
	18. TOTAL DRAINAGE AREA 1.84 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 27.8 INCHES											
	19. NET SEDIMENT CONTRIBUTING AREA 1.84 SQ. MI.				23. MEAN ANNUAL RUNOFF INCHES											
	20. LENGTH 2.88 MILES		AV. WIDTH .64 MILES		24. MEAN ANNUAL RUNOFF AC.-FT.											
	21. MAX. ELEV. 4750		MIN. ELEV. 1587		25. ANNUAL TEMP. MEAN 62.2° RANGE 48.8°-75.6°											
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.	
	Sep 1944		1		9											
	Sep 1945		1		10											
	Sep 1946		1		11											
	Sep 1947		1		12											
	Sep 1948		1		13											
	Sep 1949		1		14											
	Sep 1950		1		15											
	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			
	Sep 1944		33.6		No record of inflow.											
	Sep 1945		25.5													
	Sep 1946		22.1													
	Sep 1947		31.1													
	Sep 1948		12.0													
Sep 1949		17.7														
Sep 1950		19.5														
26. DATE OF SURVEY		37. 3/ 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				
Sep 1944		5.52		5.52		3.00		189.5		21.0		11.4				
Sep 1945		.93		.93		.51		190.4		19.0		10.3				
Sep 1946		.43		.43		.23		190.8		17.3		9.4				
Sep 1947		.68		.68		.37		191.5		16.0		8.7				
Sep 1948		.27		.27		.15		191.8		14.8		8.1				
Sep 1949		0		0		0		191.8		13.7		7.5				
Sep 1950		0		0		0		191.8		12.8		7.0				
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		

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
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DATA SUMMARY

DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS

Pickens Debris Basin
NAME OF RESERVOIR

70-52 c
DATA SHEET NO.

DAM	1. OWNER LACFCD		2. STREAM Pickens Canyon		3. STATE Cajif			
	4. SEC. Land TWP. Grant RANGE		5. NEAREST P. O. La Crescenta		6. COUNTY Los Angeles			
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	a. FLOOD CONTROL							
	b. MULTIPLE USE							
	c. POWER							
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	e. IRRIGATION					Nov 35		
	f. CONSERVATION							
g. INACTIVE								
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	Sep 52	2	17					
	Sep 59	7	24					
	Sep 66	7	31					
	Sep 70	4	35					
	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	
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	Sep 59	22.52						
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Sep 70	34.78							
26. DATE OF SURVEY	37. 2/ 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		
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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	

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
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