

RESERVOIR SEDIMENTATION  
DATA SUMMARY

Eaton Wash Flood-Control Basin

70-30b

NAME OF RESERVOIR (sheet 1 of 3)

DATA SHEET NO.

DAM	1. OWNER <b>LACFCD</b>			2. RIVER <b>Eaton Creek</b>		3. STATE <b>California</b>		
	4. SEC. <b>TWP.</b>		RANGE		5. NEAREST TOWN <b>Pasadena</b>		6. COUNTY <b>Los Angeles</b>	
	7. STREAM BED ELEV. <b>840</b>			8. TOP OF DAM ELEV. <b>902</b>		9. SPILLWAY CREST ELEV <b>887.5</b>		
RESERVOIR	10. STORAGE ALLOCATION		11. ELEVATION TOP OF POOL		12. SURFACE AREA ACRES		13. STORAGE ACRE-Feet	
	a. FLOOD CONTROL		<b>887.5</b>		<b>43</b>		<b>956</b>	
	b. POWER						<b>956 1/</b>	
	c. WATER SUPPLY						15. DATE STORAGE BEGAN  <b>1936-37</b>	
	d. IRRIGATION							
	e. CONSERVATION							
	f. INACTIVE							
17. LENGTH OF RESERVOIR		<b>0.33</b>		MILES		AV. WIDTH OF RESERVOIR		
						<b>0.34</b> MILES		
WATERSHED	18. TOTAL DRAINAGE AREA			<b>9.5</b>		SQ. MI.		
	19. NET SEDIMENT CONTRIBUTING AREA			<b>9.4</b>		SQ. MI.		
	20. LENGTH			<b>5.3</b>		MILES		
	AV. WIDTH			<b>1.8</b>		MILES		
	21. MAX. ELEV. <b>7,656</b>			MIN. ELEV. <b>887.5</b>		25. CLIMATIC CLASSIFICATION <b>Subhumid</b>		
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-Feet PER SQ. MI.
	<b>1936</b>	<b>0</b>	<b>0</b>	<b>Original</b>		<b>43</b>	<b>956</b>	<b>101</b>
	<b>Feb 1937</b>	<b>1.0</b>	<b>1.0</b>	<b>Contour</b>	<b>-</b>	<b>46</b>	<b>945</b>	<b>100</b>
	<b>May 1938</b>	<b>1.3</b>	<b>2.3</b>	<b>"</b>	<b>-</b>	<b>39</b>	<b>698</b>	<b>73</b>
	<b>Dec 1938</b>	<b>.6</b>	<b>2.9</b>	<b>"</b>	<b>5'</b>	<b>39</b>	<b>699</b>	<b>73</b>
	<b>Oct 1940</b>	<b>1.8</b>	<b>4.7</b>	<b>"</b>	<b>-</b>	<b>39</b>	<b>711</b>	<b>75</b>
	<b>Aug 1941</b>	<b>.8</b>	<b>5.5</b>	<b>"</b>	<b>5'</b>	<b>40</b>	<b>681</b>	<b>72</b>
	<b>Sep 1942</b>	<b>1.1</b>	<b>6.6</b>	<b>"</b>	<b>5'</b>	<b>39</b>	<b>722</b>	<b>76</b>
	26. DATE OF SURVEY	34. PERIOD ANNUAL PRECIPITATION	35. PERIOD WATER INFLOW ACRE-Feet			36. WATER INFL. TO DATE AC.-Feet.		
			a. MEAN ANNUAL	b. MAX. ANNUAL	c. PERIOD TOTAL	a. MEAN ANNUAL	b. TOTAL TO DATE	
	<b>Feb 1937</b>	<b>38.2</b>	<b>NR</b>	<b>3,060</b>	<b>NR</b>	<b>NR</b>	<b>NR</b>	
	<b>May 1938</b>	<b>41.5</b>	<b>7,720</b>	<b>6,990</b>	<b>10,040</b>	<b>4,370</b>	<b>10,040</b>	
	<b>Dec 1938</b>	<b>21.5</b>	<b>-</b>	<b>-</b>	<b>170</b>	<b>3,520</b>	<b>10,210</b>	
	<b>Oct 1940</b>	<b>24.3</b>	<b>406</b>	<b>390</b>	<b>730</b>	<b>2,330</b>	<b>10,940</b>	
	<b>Aug 1941</b>	<b>68.9</b>	<b>-</b>	<b>-</b>	<b>7,320</b>	<b>3,320</b>	<b>18,260</b>	
	<b>Sep 1942</b>	<b>22.0</b>	<b>-</b>	<b>-</b>	<b>78</b>	<b>2,780</b>	<b>18,338</b>	
	26. DATE OF SURVEY	37. PERIOD SEDIMENT DEPOSITS ACRE-Feet			38. TOTAL SED. DEPOSITS TO DATE ACRE-Feet 3/			
		a. PERIOD TOTAL	b. AV. ANNUAL	c. PER SQ. MI.-YR.	a. TOTAL TO DATE	b. AV. ANNUAL	c. PER SQ. MI.-YR.	
	<b>Feb 1937</b>	<b>11</b>	<b>11</b>	<b>1.17</b>	<b>11</b>	<b>11</b>	<b>1.17</b>	
	<b>May 1938</b>	<b>247</b>	<b>190</b>	<b>20.2</b>	<b>258</b>	<b>112</b>	<b>11.9</b>	
<b>Dec 1938</b>	<b>Sluicing increased storage</b>							
<b>Oct 1940</b>	<b>"</b>	<b>"</b>	<b>"</b>					
<b>Aug 1941</b>	<b>30</b>							
<b>Sep 1942</b>	<b>Sluicing increased storage</b>							
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	
<b>Feb 1937</b>					<b>1.1 2/</b>			
<b>May 1938</b>					<b>27.0</b>			
<b>Dec 1938</b>					<b>26.9</b>			
<b>Oct 1940</b>					<b>25.6</b>			
<b>Aug 1941</b>					<b>28.8</b>			
<b>Sep 1942</b>					<b>24.5</b>			

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET ABOVE, AND BELOW, CREST ELEVATION 54-50 50-40 40-30 30-20 20-10 10-crest												
Feb 1937 May 1938 Dec 1938 Oct 1940 Aug 1941 Sep 1942	PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION												
	23	77											
	Sluicing	6	13	18	34	29							
	"	4	37	59									
	Sluicing												
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.						
1936-37	878.8	Dry	3,062										
1937-38	887.9	847.0	6,993										
1938-39	864.2	Dry	340										
1939-40	865.4	843.0	390										
1940-41	879.1	841.0	7,323										
1941-42	856.5	Dry	78										
46. ELEVATION-AREA-CAPACITY DATA (Jun 1950)													
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY					
845	0	0	880	32.4	392								
850	1.4	3.2	885	38.7	566								
855	3.3	13.4	890	44.0	770								
860	6.8	37.2	895	49.4	1,001								
865	11.3	79.1	900	53.8	1,258								
870	17.7	148											
875	25.0	250											
47. REMARKS AND REFERENCES													
1/ Item 14 - After flood season reservoir is used for conservation. 2/ Based upon capacity values listed under item 32. 3/ Item 38 - Sediment removed at various times.													
48. AGENCY SUPPLYING DATA LACFCD & C of E					49. DATE Revised July 1962								

RESERVOIR SEDIMENTATION  
DATA SUMMARY

Eaton Wash Flood-Control Basin

70-30b

NAME OF RESERVOIR (sheet 2 of 3)

DATA SHEET NO.

DAM	1. OWNER <b>LACFD</b>			2. RIVER <b>Eaton Creek</b>		3. STATE <b>California</b>		
	4. SEC. <b>TWP.</b> RANGE			5. NEAREST TOWN <b>Pasadena</b>		6. COUNTY <b>Los Angeles</b>		
	7. STREAM BED ELEV. <b>840</b>			8. TOP OF DAM ELEV. <b>902</b>		9. SPILLWAY CREST ELEV <b>887.5</b>		
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	<b>887.5</b>	<b>43</b>	<b>956</b>	<b>956 1/</b>	<b>1936-37</b>		
	b. POWER							
	c. WATER SUPPLY							
	d. IRRIGATION					16. DATE NORMAL OPER. BEGAN		
	e. CONSERVATION							
	f. INACTIVE							
17. LENGTH OF RESERVOIR			0.33 MILES		AV. WIDTH OF RESERVOIR		0.34 MILES	
WATERSHED	18. TOTAL DRAINAGE AREA			9.5 SQ. MI.		22. MEAN ANNUAL PRECIPITATION		29.87 INCHES
	19. NET SEDIMENT CONTRIBUTING AREA			9.4 SQ. MI.		23. MEAN ANNUAL RUNOFF		3.7 INCHES
	20. LENGTH 5.3 MILES			AV. WIDTH 1.8 MILES		24. MEAN ANNUAL RUNOFF		1,890 (21) IN.-FT.
	21. MAX. ELEV. 7,656			MIN. ELEV. 887.5		25. CLIMATIC CLASSIFICATION		Subhumid
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.
	Oct 1943	1.1	7.7	Contour	5'	38	632	67
	Oct 1944	1.0	8.7	"	5'	38	607	64
	Oct 1946	2.0	10.6	"	5'	40	674	71
	Jun 1947	.7	11.3	"	5'	41	661	70
	Jun 1950	3.0	14.3	"	5'	41	665	70
	Jan 1952	1.6	15.9	"	5'	41	703	74
	May 1957	5.3	21.2	"	5'	40	655	69
	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	
	Oct 1943	37.4	6,550	7,210	7,210	3,320	25,548	
	Oct 1944	34.4	2,900	2,900	2,900	3,270	28,448	
	Oct 1946	26.8	430	530	560	2,740	29,080	
	Jun 1947	46.0			750	2,660	30,058	
	Jun 1950	17.2	97	190	290	2,120	30,348	
	Jan 1952	30.6	167	220	268	1,930	30,616	
	May 1957	21.9	694	2,410	3,680	1,620	34,296	
	26. DATE OF SURVEY	37. PERIOD SEDIMENT DEPOSITS ACRE-Feet			38. TOTAL SED. DEPOSITS TO DATE ACRE-Feet 3/			
		a. PERIOD TOTAL	b. AV. ANNUAL	c. PER SQ. MI.-YR.	a. TOTAL TO DATE	b. AV. ANNUAL	c. PER SQ. MI.-YR.	
	Oct 1943	131	119					
	Oct 1944	25	25					
	Oct 1946	0	0					
	Jun 1947	13						
	Jun 1950	0	0					
	Jan 1952	2	1.2					
	May 1957	48	9.1					
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	
Oct 1943					33.9	2/		
Oct 1944					36.5			
Oct 1946					29.5			
Jun 1947					30.9			
Jun 1950					30.5			
Jan 1952					26.5			
May 1957					31.5			

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET ABOVE, AND BELOW, CREST ELEVATION														
	54-50	50-40	40-30	30-20	20-10	10-crest									
	PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION														
Oct 1943		5		27	41	27									
Oct 1944		1	65	34											
Jun 1947		45	55												
Jun 1950		Sediment removal													
Jan 1952		"	"												
May 1957		5	44	39	5	7									
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.								
1942-43	856.4	Dry	7,212	1950-51	854.9	Dry	44								
1943-44	880.4	843.0	2,901	1951-52	854.9	Dry	41								
1944-45	865.6	844.0	331	1952-53	877.4	Dry	1,550								
1945-46	871.1	843.0	514	1953-54	871.9	Dry	531								
1946-47	873.4	842.0	779	1954-55	858.1	Dry	146								
1947-48	858.9	Dry	64	1955-56	871.6	Dry	330								
1948-49	854.6	Dry	36	1956-57	861.0	Dry	127								
1949-50	867.3	Dry	188	1957-58	885.4	Dry	3,114								
46. ELEVATION-AREA-CAPACITY DATA (Nov 1958)															
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY							
843.7	0	0	870	18.7	158.6	900	52.9	1,329.4							
845	.04	.05	875	27.3	269.3										
850	.32	.26	880	35.9	423.9										
855	3.43	6.97	885	41.9	618.1										
860	7.5	32.1	890	45.5	837.4										
865	13.0	81.7	895	49.5	1073.2										
47. REMARKS AND REFERENCES															
1/ Item 14 - After flood season reservoir is used for conservation.															
2/ Item 41b - Based upon capacity values listed under Item 32.															
3/ Item 38 - Sediment removed at various times.															
48. AGENCY SUPPLYING DATA LACFCD & C of E															
49. DATE Revised July 1962															

RESERVOIR SEDIMENT  
DATA SUMMARY

DEPARTMENT OF THE ARMY  
CORPS OF ENGINEERS

EATON WASH (EATON WASH DAM)

NAME OF RESERVOIR

70-30d

DATA SHEET NO.

DAM	1. OWNER <b>LACFCD</b>			2. STREAM <b>Eaton Creek</b>			3. STATE <b>California</b>									
	4. SEC. <b>Land TWP. Grant</b> RANGE			5. NEAREST P.O. <b>Pasadena</b>			6. COUNTY <b>Los Angeles</b>									
	7. LAT. <b>34° 10' 07" LONG</b> <b>118° 05' 30"</b>			8. TOP OF DAM ELEVATION <b>902</b>			9. SPILLWAY CREST ELEV. <b>887.5</b>									
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>897.5</b>		<b>43</b>		<b>956</b>		<b>956</b>		<b>1</b>					
	b. MULTIPLE USE										<b>1936-37</b>					
	c. POWER															
	d. WATER SUPPLY															
	e. IRRIGATION															
	f. CONSERVATION															
	g. INACTIVE										<b>Feb 37</b>					
WATERSHED	17. LENGTH OF RESERVOIR <b>0.33</b> MILES				AV. WIDTH OF RESERVOIR <b>0.20</b> MILES											
	18. TOTAL DRAINAGE AREA <b>9.5</b> SQ. MI.				22. MEAN ANNUAL PRECIPITATION <b>29.87</b> INCHES											
	19. NET SEDIMENT CONTRIBUTING AREA <b>9.4</b> SQ. MI.				23. MEAN ANNUAL RUNOFF <b>4.36</b> INCHES											
	20. LENGTH <b>5.3</b> MILES				AV. WIDTH <b>1.8</b> MILES				24. MEAN ANNUAL RUNOFF <b>2209 (33)</b> AC.-FT.							
	21. MAX. ELEV. <b>7656</b>				MIN. ELEV. <b>840.0</b>				25. ANNUAL TEMP. MEAN <b>62.2°</b> RANGE <b>48.8°-75.6°</b>							
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, 3/ACRE-Feet		33. C/I. RATIO, AC.-FT. PER AC.-FT.	
	Nov 58		1.5		22.8		Contour		2'		44		725		0.33	
	Sep 61		2.9		25.7		"		2'		45.2		807		.37	
	Oct 63		2.0		27.7		"		2'		45.2		828.0		.37	
	Feb 64		0.2		27.9		"		2'		44.3		872.8		.40	
	Apr 66		2.2		30.1		"		2'		42.4		769.7		.35	
	Jul 67		1.3		31.4		"		2'		43.5		758.4		.34	
	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 58		27.94		2,087		3,110		3,130		1,650		37,126			
	Sep 61		12.01		150		313		434		1,480		37,560			
	Oct 63		25.15		958		1,729		1,916		1,440		39,476			
	Feb 64		--		--		--		94		1,418		39,570			
	Apr 66		34.49		3,125		6,199		6,878		1,543		46,448			
	Jul 67		38.14		2,912		3,784		3,786		1,600		50,234			
	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			
	Nov 58		7		4.7		0.50		514		22.5		2.39			
	Sep 61		68		23.4		2.48		582		22.6		2.40			
	Oct 63		10		5.0		.53		592		21.4		2.28			
	Feb 64		0.5		--		--		592		21.2		2.26			
	Apr 66		103		46.8		4.98		695		23.1		2.45			
	Jul 67		79.3		61.0		6.49		774		24.6		2.62			
	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 58								1.06		24.16					
Sep 61								.60		15.58						
Oct 63								.48		13.38						
Feb 64								.31		8.68						
Apr 66								.65		19.5						
Jul 67								.67		21.0						

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET BELOW, AND ABOVE, CREST ELEVATION													
	54-50	50-40	40-30	30-20	20-10	10-Crest								
	PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION													
Nov 58	Sediment removed				77	Ac-ft.								
Sep 61	"	"			160	" "								
Oct 63	"	"			31	" "								
Feb 64	"	"			45.3	"								
Apr 66	6	11	35	28	20									
Jul 67				68										
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.							
1958-59	865.9	Dry	313											
1959-60	857.6	"	60											
1960-61	857.8	"	61											
1961-62	881.8	843.2	1729											
1962-63	868.8	843.2	177											
1963-64	863.8	843.1	221											
1964-65	870.0	843.1	554											
1965-55	887.7	846.5	5298											
1966-67	886.6	842.9	3785											
46. ELEVATION-AREA-CAPACITY DATA														
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY						
846.5	0	0	890	45.0	879.9									
850	.4	1.0	895	48.4	1115.2									
855	2.5	6.8	900	51.5	1366.5									
860	8.8	38.3												
865	14.6	99.7												
870	20.5	190.2												
875	28.2	318.2												
880	34.2	475.4												
885	39.9	665.6												
47. REMARKS AND REFERENCES														
1/ Item 14 - After flood season reservoir is used for conservation.														
2/ Item 25 - Temperature taken at Pasadena, California.														
3/ Items 32 & 37 - Sediment removed at various times.														
48. AGENCY MAKING SURVEY				LACFCD										
49. AGENCY SUPPLYING DATA				C of E		50. DATE 27 Feb 67								

# RESERVOIR SEDIMENT DATA SUMMARY

DEPARTMENT OF THE ARMY  
CORPS OF ENGINEERS

EATON WASH (EATON WASH DAM)

NAME OF RESERVOIR

70-30a

DATA SHEET NO.

DAM	1. OWNER LACFCD			2. STREAM Eaton Creek			3. STATE California									
	4. SEC. Land TWP. Grant RANGE			5. NEAREST P O Pasadena			6. COUNTY Los Angeles									
	7. LAT 34° 10' 07" LONG 118° 05' 30"			8. TOP OF DAM ELEVATION 992			9. SPILLWAY CREST ELEV. 987.5									
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		897.5		43		956		956 1/		1936-37					
	b. MULTIPLE USE															
	c. POWER															
	d. WATER SUPPLY										16. DATE NORMAL OPER. BEGAN					
	e. IRRIGATION															
	f. CONSERVATION															
	g. INACTIVE										Feb 37					
WATERSHED	17. LENGTH OF RESERVOIR 0.33 MILES				AV. WIDTH OF RESERVOIR 0.20 MILES											
	18. TOTAL DRAINAGE AREA 9.5 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 29.87 INCHES											
	19. NET SEDIMENT CONTRIBUTING AREA 9.4 SQ. MI.				23. MEAN ANNUAL RUNOFF 4.36 INCHES											
	20. LENGTH 5.3 MILES AV. WIDTH 1.8 MILES				24. MEAN ANNUAL RUNOFF 2209 (33) AC.-FT.											
	21. MAX. ELEV. 7656 MIN. ELEV. 840.0				25. 2/ 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. 3/ CAPACITY, ACRE-Feet		33. C/I. RATIO, AC.-FT. PER AC.-FT.	
	Dec 69		2.4		33.8		Contour		2'		43.2		879		0.40	
	Sep 73		3.75		37.55		"		2'		40.3		784		.35	
	Jul 75		1.83		39.38		"		2'		43.8		832		.38	
	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					
	Dec 69		33.16		9252		20,868		22,205		2,143		72,439			
	Sep 73		20.76		1851		5,244		6,943		2,114		79,382			
	Jul 75		32.50		1690		2,420		3,092		2,094		82,474			
	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			
	Dec 69		254.4		106		11.3		1028		30.4'		3.24			
	Sep 73		95		25.3		2.69		1123		29.9		3.18			
	Jul 75		143		78.14		8.31		1266		32.14		3.42			
	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				
Dec 69						3/		0.24		8.05						
Sep 73								.48		18.00						
Jul 75								.33		12.97						

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET BELOW, AND ABOVE, CREST ELEVATION														
	46-40	40-30	30-20	20-10	10-Crest										
	PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION														
Dec 69 Sep 73 Jul 75	Sediment 5	removal of 26	375 17	acre-feet 20	increased 32	storage 143	capacity. Acre-feet	increased increased	storage storage	capacity. capacity.					
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.								
1967-68	879.2	Dry	1,303												
1968-69	889.6	"	20,868												
1969-70	878.2	"	718												
1970-71	874.2	"	809												
1971-72	865.7	"	207												
1972-73	887.9	"	5,244												
1973-74	882.9	"	2,420												
1974-75	871.45	"	672												
46. ELEVATION-AREA-CAPACITY DATA															
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY							
845	0	0	880	37.4	527										
850	0.8	0.8	885	42.0	725										
855	5.0	15.5	890	45.4	944										
860	9.5	50.8	895	48.0	1179										
865	15.5	112	900	51.0	1430										
870	23.5	211													
875	32.6	352													
47. REMARKS AND REFERENCES															
1/ Item 14 - After flood season reservoir is used for conservation.															
2/ Item 25 - Temperature taken at Pasadena, California															
3/ Item 32, 37 & 41 - Sediment removed at various times.															
48. AGENCY MAKING SURVEY LACFCD															
49. AGENCY SUPPLYING DATA C of E															
50. DATE Feb 76															



# RESERVOIR SEDIMENT DATA SUMMARY

EATON WASH FLOOD CONTROL BASIN  
NAME OF RESERVOIR

DEPARTMENT OF THE ARMY  
CORPS OF ENGINEERS

70-30f  
DATA SHEET NO.

DAM	1. OWNER LACDPW 1/		2. STREAM Eaton Creek		3. STATE California			
	4. SEC. Land twp. Grant Range		5. NEAREST P.O. Pasadena		6. COUNTY Los Angeles			
RESERVOIR	7. LAT 34° 10' 07" LONG 118° 05' 30"		8. TOP OF DAM ELEVATION 902		9. SPILLWAY CREST ELEV. 887.5			
	10. STORAGE ALLOCATION	11. ELEVATION TOP OF POOL	12. ORIGINAL SURFACE AREA, ACRES	13. ORIGINAL CAPACITY, ACRE-Feet	14. GROSS STORAGE, 2/ ACRE-Feet	15. DATE STORAGE BEGAN		
	a. FLOOD CONTROL	887.5	43	956	956	1936-37		
	b. MULTIPLE USE					16. DATE NORMAL OPER. BEGAN  Feb 37		
	c. POWER							
	d. WATER SUPPLY							
	e. IRRIGATION							
f. CONSERVATION								
g. INACTIVE								
WATERSHED	17. LENGTH OF RESERVOIR		0.33 MILES	AV. WIDTH OF RESERVOIR		0.20 MILES		
	18. TOTAL DRAINAGE AREA		9.5 SQ. MI.	22. MEAN ANNUAL PRECIPITATION		29.87 INCHES		
	19. NET SEDIMENT CONTRIBUTING AREA		9.4 SQ. MI.	23. MEAN ANNUAL RUNOFF		4.36 INCHES		
	20. LENGTH 5.3 MILES		AV. WIDTH 1.8 MILES	24. MEAN ANNUAL RUNOFF		2209 (33) AC.-FT.		
	21. MAX. ELEV. 7,656		MIN. ELEV. 840	25. ANNUAL TEMP: MEAN 62.2° RANGE 48.8°-75.6°				
	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.
	Jul 81	0.50	45.42	Contour	2'	42.6	880	0.40
	Apr 83	1.75	47.17	"	2'	39.2	721	0.33
	Mar 88	4.92	52.09	"	2'	41.2	755	0.34
	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	
Jul 81		39.65	1,342	671	671	2,365	107,438	
Apr 83		23.69	7,995	18,915	13,991	2,574	121,429	
Mar 88		27.72	4/	1,937	4/	4/	4/	
SURVEY DATA	26. DATE OF SURVEY	37. 5/ PERIOD CAPACITY LOSS, ACRE-Feet			38. 5/ 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.-Y.	
	Jul 81	28	56.0	5.96	1,672	36.8	3.92	
Apr 83	159	90.9	9.67	1,831	38.8	4.13		
Mar 88	-34	Excavation increased the storage capacity						
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, PP	
			a. PERIOD	b. TOTAL TO DATE	a. AV. ANN.	b. TOT. TO DATE	a. PERIOD	b. TOT. TO
	Jul 81				0.18	7.95		
Apr 83				0.52	24.58			
Mar 88				0.40	21.03			

43. DEPTH DESIGNATION RANGE IN FEET BELOW, AND ABOVE, CREST ELEVATION												
26. DATE OF SURVEY	PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION											
	46-40	40-30	30-20	20-10	10-Crest							
Jul 81	19	22	37	17	5							
Apr 83	8	15	25	31	21							
Mar 88	Excavation changed the distribution of storage											

  

44. REACH DESIGNATION PERCENT OF TOTAL ORIGINAL LENGTH OF RESERVOIR															
26. DATE OF SURVEY	PERCENT OF TOTAL SEDIMENT LOCATED WITHIN REACH DESIGNATION														
	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

  

45. RANGE IN RESERVOIR OPERATION							
WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW, AC.-FT.	WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW, AC.-FT.
1980-81	867.5	842.0	671				
1981-82	881.5	842.0	1,523				
1982-83	887.8	843.0	18,915				
1983-84	871.7	845.0	1,917				
1984-85	868.3	845.0	701				
1985-86	870.3	845.0	1,937				
1986-87	851.7	845.0	INC				
1987-88	869.1	845.0	848				

  

46. ELEVATION-AREA-CAPACITY DATA								
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY
845	0	0	880	21.5 (6)	470.9			
850	3.6	8.1	885	39.2	654.6			
855	6.8	34.2	890	43.2	860.8			
860	9.4	74.9	895	46.9	1,086			
865	12.4	128.8	900	50.1	1,330			
870	18.3	204.7						
875	27.1 (6)	317.3						

  

47. REMARKS AND REFERENCES	
1/	Item 1 - Agency name changed from Los Angeles County Flood Control District (LACFCD) to Los Angeles County Department of Public Works (LACDPW).
2/	Item 14 - After flood season reservoir is used for conservation.
3/	Item 25 - Temperature taken at Pasadena, California.
4/	Items 35 & 36 - Not available due to incomplete data for WY 1986-87.
5/	Items 37, 38 & 41 - Sediment removed at various times.
6/	Item 46 - Survey or Survey Computation error.

  

48. AGENCY MAKING SURVEY	49. AGENCY SUPPLYING DATA	50. DATE
LACDPW	C of E	January 1990

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