

RESERVOIR SEDIMENT
DATA SUMMARY

DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS

Beatty Debris Basin
NAME OF RESERVOIR

70-109

DATA SHEET NO.

DAM	1. OWNER <u>LACFCO</u>			2. STREAM <u>Beatty Canyon</u>			3. STATE <u>California</u>								
	4. SEC. <u>26</u> TWP. <u>1N</u> RANGE <u>10W</u>			5. NEAREST P.O. <u>Azusa</u>			6. COUNTY <u>Los Angeles</u>								
	7. LAT <u>34° 18' 51" N</u> LONG <u>117° 54' 00" W</u>			B. TOP OF DAM ELEVATION <u>815.5</u>			9. SPILLWAY CREST ELEV. <u>807.0</u>								
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 70				
	b. MULTIPLE USE														
	c. POWER														
	d. WATER SUPPLY										16. DATE NORMAL OPER. BEGAN				
	e. IRRIGATION														
	f. CONSERVATION														
	g. INACTIVE										1970 - 71				
17. LENGTH OF RESERVOIR					.05 MILES		AV. WIDTH OF RESERVOIR					.05 MILES			
18. TOTAL DRAINAGE AREA					0.27 SQ. MI.		22. MEAN ANNUAL PRECIPITATION					INCHES			
19. NET SEDIMENT CONTRIBUTING AREA					0.27 SQ. MI.		23. MEAN ANNUAL RUNOFF					INCHES			
20. LENGTH .83 MILES			AV. WIDTH .33 MILES			24. MEAN ANNUAL RUNOFF			AC. FT.						
21. MAX. ELEV. 2081			MIN. ELEV. 799.8			25. ANNUAL TEMP. MEAN 62.2° RANGE 48.8° - 75.6°									
WATERSHED	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 75		5	5											
	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 75		20.90		No record of inflow.										
	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 75		2.23		0.45		1.67		2.23		0.45		1.67		
	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															
<p>1/ Item 25 - Temperature taken at Pasadena, California.</p> <p>2/ Item 32 - Capacity of debris basin varies. Debris excavated at various times.</p> <p>3/ Item 37 - Sedimentation values computed by LACFCD are based on complete water year.</p>															
48. AGENCY MAKING SURVEY LACFCD															
49. AGENCY SUPPLYING DATA C of E															
50. DATE Feb 76															

RESERVOIR SEDIMENT
DATA SUMMARY

DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS

BEATTY DEBRIS BASIN

NAME OF RESERVOIR

70-109a

DATA SHEET NO.

DAM	1. OWNER LACFCD			2. STREAM BEATTY CANYON			3. STATE CALIFORNIA								
	4. SEC. 26 TWP. 1N RANGE 10W			5. NEAREST P.O. Azusa			6. COUNTY Los Angles								
	7. LAT. 34° 18' 51" N LONG. 117° 54' 00" W			8. TOP OF DAM ELEVATION 815.5			9. SPILLWAY CREST ELEV. 807.0								
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										Dec 70				
	b. MULTIPLE USE														
	c. POWER														
	d. WATER SUPPLY										1970-71				
	e. IRRIGATION														
	f. CONSERVATION														
	g. INACTIVE														
17. LENGTH OF RESERVOIR .05 MILES				AV. WIDTH OF RESERVOIR .05 MILES											
WATERSHED	18. TOTAL DRAINAGE AREA 0.27 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 24.08 INCHES										
	19. NET SEDIMENT CONTRIBUTING AREA 0.27 SQ. MI.				23. MEAN ANNUAL RUNOFF INCHES										
	20. LENGTH 0.83 MILES		AV. WIDTH 0.33 MILES		24. MEAN ANNUAL RUNOFF AC. FT.										
	21. MAX. ELEV. 2081		MIN. ELEV. 799.8		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, 2/ACRE-FEET		33. C/I. RATIO, AC. FT. PER AC. FT.
Sep 75		5		5											
Sep 79		4		9											
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		
	Sep 75		20.90		No record of inflow.										
	Sep 79		23.34												
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 75		2.23		0.45		1.67		2.23		0.45		1.67			
Sep 79		0.31		0.08		0.29		2.54		0.28		1.05			
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							
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	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.								
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47. REMARKS AND REFERENCES															
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48. AGENCY MAKING SURVEY LACFCD				49. AGENCY SUPPLYING DATA C of E											
						50. DATE 14 February 1980									