

RESERVOIR SEDIMENTATION  
DATA SUMMARY

Turnbull Debris Basin

70-83

NAME OF RESERVOIR

DATA SHEET NO.

DAM	1. OWNER <b>IACFCD</b>			2. RIVER <b>Turnbull Canyon Wash.</b>		3. STATE <b>California</b>		
	4. SEC. <b>TWP.</b>		RANGE	5. NEAREST TOWN <b>Whittier</b>		6. COUNTY <b>Los Angeles</b>		
	7. STREAM BED ELEV.			8. TOP OF DAM ELEV. <b>503</b>		9. SPILLWAY CREST ELEV. <b>492.0</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. POWER							
	c. WATER SUPPLY							
	d. IRRIGATION					16. DATE NORMAL OPER. BEGAN		
	e. CONSERVATION					<b>Jan. 1953</b>		
WATERSHED	* 17. LENGTH OF RESERVOIR			MILES	AV. WIDTH OF RESERVOIR		MILES	
	18. TOTAL DRAINAGE AREA <b>.99</b>			SQ. MI.	22. MEAN ANNUAL PRECIPITATION <b>16.35</b>		INCHES	
	19. NET SEDIMENT CONTRIBUTING AREA <b>.99</b>			SQ. MI.	23. MEAN ANNUAL RUNOFF		INCHES	
	20. LENGTH <b>2.50</b>		MILES	AV. WIDTH <b>.81</b>		MILES	24. MEAN ANNUAL RUNOFF	
	AC.-FT.	21. MAX. ELEV. <b>1225.0</b>	MIN. ELEV. <b>492.0</b>	25. CLIMATIC CLASSIFICATION <b>Semi-arid</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.-FT. PER SQ. MI.
	<b>Sept. 1959</b>	<b>6.8</b>	<b>6.8</b>					
	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	
	<b>Sept. 1959</b>	<b>13.97</b>				<b>NO RECORD OF INFLOW.</b>		
	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.	
	<b>Sept. 1959</b>	<b>1.9</b>	<b>.28</b>	<b>.28</b>	<b>1.9</b>	<b>.28</b>	<b>.28</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

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															
<p>*Item 17. No dimensions available.</p> <p>**Item 32. Capacity of debris basin varies. Debris excavated at various times.</p>															
48. AGENCY SUPPLYING DATA														49. DATE	
LACFCD & C of E														8 Feb. 1960	

RESERVOIR SEDIMENT  
DATA SUMMARY

DEPARTMENT OF THE ARMY  
CORPS OF ENGINEERS

TURNBULL DEBRIS BASIN (Revised)

NAME OF RESERVOIR

70-83b

DATA SHEET NO.

DAM	1. OWNER <b>LACFCD</b>			2. STREAM <b>Turnbull Cyn Wash</b>			3. STATE <b>Calif</b>									
	4. SEC. <b>Land TWP. Gran</b> RANGE			5. NEAREST P O <b>Whittier</b>			6. COUNTY <b>Los Angeles</b>									
	7. LAT. <b>34° 00' 10"</b>			" LONG <b>118 01' 15"</b>			8. TOP OF DAM ELEVATION <b>503</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. MULTIPLE USE															
	c. POWER															
	d. WATER SUPPLY										16. DATE NORMAL OPER. BEGAN					
	e. IRRIGATION										Jan 53					
	f. CONSERVATION															
	g. INACTIVE															
WATERSHED	17. LENGTH OF RESERVOIR			<b>.095</b> MILES			AV. WIDTH OF RESERVOIR			<b>.015</b> MILES						
	18. TOTAL DRAINAGE AREA			<b>.99</b> SQ. MI.			22. MEAN ANNUAL PRECIPITATION			<b>16.35</b> INCHES						
	19. NET SEDIMENT CONTRIBUTING AREA			<b>.99</b> SQ. MI.			23. MEAN ANNUAL RUNOFF			INCHES						
	20. LENGTH		<b>2.5</b> MILES		AV. WIDTH		<b>.81</b> MILES		24. MEAN ANNUAL RUNOFF							
	21. MAX. ELEV.		<b>1225</b>		MIN. ELEV.		<b>492</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, ACRE-FEET		33. CH. RATIO, AC.-FT. PER AC.-FT.	
	Sep 68		15.75		15.75											
	Sep 69		1.0		16.75											
	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 68		14.21		No record of inflow.											
	Sep 69		29.46													
	26. DATE OF SURVEY		37. <u>3</u> 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 68		5.48		.35		.35		5.48		.35		.35			
Sep 69		15.69		15.69		15.85		21.17		1.26		1.28				
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 based on complete water year.															
48. AGENCY MAKING SURVEY				LACFCD											
49. AGENCY SUPPLYING DATA				C of E											
50. DATE						8 Feb 72									