

RESERVOIR SEDIMENT  
DATA SUMMARY

DEPARTMENT OF THE ARMY  
CORPS OF ENGINEERS

CARBON CANYON FLOOD CONTROL BASIN

NAME OF RESERVOIR

70-90

DATA SHEET NO.

DAM	1. OWNER Corps of Engineers			2. STREAM Carbon Cyn Creek			3. STATE California									
	4. SEC. Land TWP. Grant RANGE			5. NEAREST P.O. Brea			6. COUNTY Orange									
	7. LAT. 33° 54' 53" LONG 117° 50' 24" "			8. TOP OF DAM ELEVATION 499			9. SPILLWAY CREST ELEV. 475									
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		475		224		7,033				May 60					
	b. MULTIPLE USE															
	c. POWER															
	d. WATER SUPPLY										16. DATE NORMAL OPER. BEGAN					
	e. IRRIGATION										May 61					
	f. CONSERVATION															
g. INACTIVE																
17. LENGTH OF RESERVOIR			1 MILES			AV. WIDTH OF RESERVOIR			0.35 MILES							
18. TOTAL DRAINAGE AREA			19.3 SQ. MI.			22. MEAN ANNUAL PRECIPITATION			17.3 INCHES							
19. NET SEDIMENT CONTRIBUTING AREA			19.3 SQ. MI.			23. MEAN ANNUAL RUNOFF			0.68 INCHES							
20. LENGTH			7.5 MILES			AV. WIDTH			2.6 MILES							
21. MAX. ELEV.			1,625			MIN. ELEV.			403							
24. MEAN ANNUAL RUNOFF			700 (8)			25. ANNUAL TEMP. MEAN			62.5° RANGE 48.8°-76.5°							
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.	
	Mar 61 Sep 69		Original 8.5		survey 8.5		Contour		3' 5'		224 222		7,033 6,615		10.0 9.45	
SURVEY DATA	26. DATE OF SURVEY		34. PERIOD ANNUAL PRECIPITATION		35. PERIOD WATER INFLOW, ACRE-FEET			36. WATER INFL. TO DATE, AC.-FT.								
	Sep 69		15.05		659			3,419								
				a. MEAN ANNUAL			b. MAX. ANNUAL		c. PERIOD TOTAL		a. MEAN ANNUAL		b. TOTAL TO DATE			
				659			3,419		5,600		659		5,600			
26. DATE OF SURVEY		37. PERIOD CAPACITY LOSS, ACRE-FEET			38. TOTAL SED. DEPOSITS TO DATE, ACRE-FEET											
Sep 69		418			49.2											
		a. PERIOD TOTAL			b. AV. ANNUAL		c. PER SQ. MI.-YEAR		a. TOTAL TO DATE		b. AV. ANNUAL		c. PER SQ. MI.-YEAR			
		418			49.2		2.54		418		49.2		2.54			
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								
Sep 69						0.70		5.94								
		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											
	73-70	70-60	60-50	50-40	40-30	30-20	20-10	10-Crest	Crest	+10	10+15	
	PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION											
Sep 69	1	6	13	16		5	15	8	18	18		

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.
1961-62	409.77	Dry	238				
1962-63	407.14	Dry	33				
1963-64	406.25	Dry	440				
1964-65	408.74	Dry	91				
1965-66	411.20	Dry	227				
1966-67	419.50	Dry	755				
1967-68	415.63	Dry	397				
1968-69	429.00	Dry	3,419				

46. ELEVATION-AREA-CAPACITY DATA								
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY
403	0	0	435	83	1,330	470	199	5,564
405	1	.5	440	92	1,567	475	222	6,615
410	13	33.3	445	100	2,048	480	234	7,753
415	21	118	450	111	2,577	485	254	8,971
420	37	264	455	125	3,168	490	273	10,287
425	49	480	460	146	3,846			
430	64	763	465	171	4,639			

47. REMARKS AND REFERENCES  
1/ Item 25 - Temperature taken at Yorba Linda.