

U.S. DEPARTMENT OF AGRICULTURE
**RESERVOIR SEDIMENTATION
 DATA SUMMARY**

Cottonwood Detention
 NAME OF RESERVOIR

SOIL CONSERVATION SERVICE
 56-1a
 DATA SHEET NO.

DAM	1. OWNER El Paso County		2. RIVER San Felipe Arroyo		3. STATE Texas			
	4. SEC. TWP. RANGE		5. NEAREST TOWN Fabens		6. COUNTY El Paso			
	7. STREAM BED ELEV. 3,804		8. TOP OF DAM ELEV. 3,827.9		9. SPILLWAY CREST ELEV. 3,822.9			
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	3,822.90	98.38	480	500	July 1937		
	b. POWER							
	c. WATER SUPPLY							
	d. IRRIGATION					16. DATE NORMAL OPER. BEGAN		
	e. CONSERVATION	3,806.05	Unknown	20	20	July 1937		
	f. INACTIVE							
17. LENGTH OF RESERVOIR 1.5 MILES		AV. WIDTH OF RESERVOIR 0.4 MILES						
WATERSHED	18. TOTAL DRAINAGE AREA 2.34 SQ. MI.		22. MEAN ANNUAL PRECIPITATION 10.0 INCHES					
	19. NET SEDIMENT CONTRIBUTING AREA 2.19 SQ. MI.		23. MEAN ANNUAL RUNOFF 0.25 INCHES					
	20. LENGTH 2 MILES		AV. WIDTH 1.2 MILES		24. MEAN ANNUAL RUNOFF 13.3 ac.ft./sq.mi.			
	21. MAX. ELEV.		MIN. ELEV.		25. CLIMATIC CLASSIFICATION Arid			
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.
	July 1937	-	-	-	-	98.38	500	214
	July 22-23, 1954	17	17	Contour	6 contours	80.44	378	162
	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	
	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.-YEAR	a. TOTAL TO DATE	b. AV. ANNUAL	c. PER SQ. MI.-YEAR	
	July 22-23, 1954	122	7.18	3.28	122	7.18	3.28	
	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. ANNUAL	b. TOT. TO DATE	a. PERIOD	b. TOT. TO DATE	
July 22, 23, 1954	-	-	-	1.38	23.46	-	-	

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

Land Use - 100 % range, poor cover.
 C/I ratio - 16.09 - 1937; 12.18 - 1954.
 Estimated trap efficiency - 98%.
 Total annual sediment load adjusted for trap efficiency - 3.13 ac.ft./sq. mi.

48. AGENCY SUPPLYING DATA SCS, Temple, Texas

49. DATE July, 1954