

RESERVOIR SEDIMENTATION
DATA SUMMARY

Caonillas

Puerto Rico

NAME OF RESERVOIR

DATA SHEET NO.

DAM	1. OWNER Puerto Rico Water Resources Authority			2. RIVER Caonillas		3. STATE Puerto Rico				
	4. SEC. AUTHORITY WR		RANGE		5. NEAREST TOWN 1 1/2 mi. east of Utuado		6. COUNTY Municipio Utuado			
	7. STREAM BED ELEV. 615			8. TOP OF DAM ELEV. 854.25		9. SPILLWAY CREST ELEV. 830				
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									June 28, 1948
	b. POWER		830		678		48,109		50,149	
	c. WATER SUPPLY									16. DATE NORMAL OPER. BEGAN
	d. IRRIGATION									January 1949
	e. CONSERVATION									
	f. INACTIVE		700		90		2,040		2,040	
17. LENGTH OF RESERVOIR 3.2 MILES					AV. WIDTH OF RESERVOIR 0.2 MILES					
WATERSHED	18. TOTAL DRAINAGE AREA 48.9 2/3 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 60-110 INCHES					
	19. NET SEDIMENT CONTRIBUTING AREA 47.9 SQ. MI.				23. MEAN ANNUAL RUNOFF 34 INCHES					
	20. LENGTH 11.4 MILES		AV. WIDTH 4.5 MILES		24. MEAN ANNUAL RUNOFF 88,670 AC.-FT.					
	21. MAX. ELEV. 4390		MIN. ELEV. 615		25. CLIMATIC CLASSIFICATION per-humid					
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.		
	June 28, 1948	-	-	-	-	678	50,149 3/	1026		
	Oct. 28-Nov. 19, 1952	4.3	4.3	range (D)	21	678	49,883	1020		
	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. 28-Nov. 19, 1952	72.6		-	-	-	-	-		
	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			
	Oct. 28-Nov. 19, 1952	266	61.9	1.29	266	61.9	1.29			
	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.			
Oct. 28-Nov. 19, 1952	38.1 (31)	1070	1070	0.12	0.53	-	-			

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>1/ With 4-foot flashboards.</p> <p>2/ Caonillas Extension Project increases the drainage area to 85.5 square miles; put into operation during October 1952.</p> <p>3/ Determined by this survey (1952).</p> <p>Noll, John J. The Silting of Caonillas Reservoir, Puerto Rico, U. S. Soil Conservation Service, SCS-TP-119. 22 pp. illus., processed. Washington, Oct. 1953.</p>															
48. AGENCY SUPPLYING DATA				SCS, Spartanburg, S.C.				49. DATE				October 1954			

D.C.