

**RESERVOIR SEDIMENTATION
DATA SUMMARY**

Smith Pond

NAME OF RESERVOIR

52-12

DATA SHEET NO.

DAM	1. OWNER Roran Smith			2. RIVER Trib. of Bonito Creek		3. STATE Texas		
	4. SEC. TWP. RANGE		5. NEAREST TOWN 7 mi. NE Jourdan			6. COUNTY Atascosa		
	7. STREAM BED ELEV. 88.0 1/		8. TOP OF DAM ELEV 105.0 1/		9. SPILLWAY CREST ELEV. 100.0 1/			
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					April 1 1953		
	b. POWER							
	c. WATER SUPPLY	100.0 1/	1.64	6.41	6.41	16. DATE NORMAL OPER. BEGAN		
	d. IRRIGATION							
	e. CONSERVATION							
	f. INACTIVE							
17. LENGTH OF RESERVOIR 0.08 MILES			AV. WIDTH OF RESERVOIR 0.043 MILES					
WATERSHED	18. TOTAL DRAINAGE AREA 0.191 SQ. MI.		22. MEAN ANNUAL PRECIPITATION 26.88 (32) INCHES					
	19. NET SEDIMENT CONTRIBUTING AREA 0.188 SQ. MI.		23. MEAN ANNUAL RUNOFF 1.75 INCHES					
	20. LENGTH MILES		AV. WIDTH MILES		24. MEAN ANNUAL RUNOFF 93 ac.ft./sq.mi. AC.-FT.			
	21. MAX. ELEV. 150 1/		MIN. ELEV. 88.0 1/		25. CLIMATIC CLASSIFICATION Subhumid			
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.
	Apr. 1, 1953					1.64	6.41	33.6
	Aug. 25, 1955	2.4	2.4	Detail	3 Ranges	1.64	5.60	29.3
	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	
	Aug. 25, 1955	0.81	0.338	1.80	0.81	0.338	1.80	
	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	
Aug. 25, 1955	27.8 (2)	1,090	1,090	5.27	12.64			

1/ Local

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>No ponds in watershed Land Use: 37% cultivated, 63% pasture Average C/W ratio: 0.34 Estimated trap efficiency: 95% Total annual sediment load, adjusted for trap efficiency: 1.89 ac.ft./sq.mi.</p>															
48. AGENCY SUPPLYING DATA										SCS, Temple, Texas					
49. DATE										Sept. 12, 1955					