

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

Stickley Pond No. 4
NAME OF RESERVOIR

SOIL CONSERVATION SERVICE
50_38
DATA SHEET NO.

DAM	1. OWNER Houston Stickley		2. RIVER Canadian R.		3. STATE Texas				
	4. SEC. 1/ TWP. RANGE		5. NEAREST TOWN Canadian		6. COUNTY Hemphill				
	7. STREAM BED ELEV.		8. TOP OF DAM ELEV. 105.00		9. SPILLWAY CREST ELEV. 100.00				
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					1-15-1947			
	b. POWER								
	c. WATER SUPPLY	100.00	2.794		15.794	18. DATE NORMAL OPER. BEGAN			
	d. IRRIGATION								
	e. CONSERVATION					1-15-1947			
	f. INACTIVE								
WATERSHED	17. LENGTH OF RESERVOIR 0.13 MILES		AV. WIDTH OF RESERVOIR 0.034 MILES						
	18. TOTAL DRAINAGE AREA 0.171 SQ. MI.		22. MEAN ANNUAL PRECIPITATION 24.40 INCHES						
	19. NET SEDIMENT CONTRIBUTING AREA 0.171 SQ. MI.		23. MEAN ANNUAL RUNOFF 0.90 INCHES						
	20. LENGTH 0.85 MILES		AV. WIDTH 0.20 MILES		24. MEAN ANNUAL RUNOFF 47.997 AG.- FT.				
	21. MAX. ELEV.		MIN. ELEV.		25. CLIMATIC CLASSIFICATION				
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.	
	1-15-47			Detail Range		2.794	15.794	92.363	
	4-28-58	11.266	11.266		4	2.794	13.943	81,538	
	26. DATE OF SURVEY	34. PERIOD ANNUAL PRECIPITATION	35. PERIOD WATER INFLOW ACRE- FEET			36. WATER INFL. TO DATE AG- FT.			
			a. MEAN ANNUAL	b. MAX. ANNUAL	c. PERIOD TOTAL	d. MEAN ANNUAL	e. 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	d. TOTAL TO DATE	e. AV. ANNUAL	f. PER SQ. MI.- YEAR		
	1-15-47	-	-	-	-	-	-		
	4-28-58	1.851	0.164	0.959	1.851	0.164	0.959		
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		
1-15-47	-	-	-	-	-	-	-		
4-28-58	77.65	1621.88	1621.88	1.04	11.72	-	-		

1/ Sec. 245, Maddox Brothers and Anderson Block C, Survey

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
C/I ratio = (92.363 = 1.924) Est. trap efficiency = 100%.
Vol. rate ratio: 1.17 all samples exposed to air; dry pond.

48. AGENCY SUPPLYING DATA

49. DATE Nov. 13, 1958