

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

**George
Pond**

SOIL CONSERVATION SERVICE
50 - 19
DATA SHEET NO.

NAME OF RESERVOIR

DATA SHEET NO.

DAM	1. OWNER Roy George			2. RIVER Unnamed			3. STATE Texas			
	4. SEC. 1/ TWP. RANGE			5. NEAREST TOWN Canadian			6. COUNTY Hemphill			
	7. STREAM BED ELEV.			8. TOP OF DAM ELEV. 105.0			9. SPILLWAY CREST ELEV. 100.0			
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					6-30-52				
	b. POWER									
	c. WATER SUPPLY	100.00	3.150	-	15.197	16. DATE NORMAL OPER. BEGAN				
	d. IRRIGATION									
	e. CONSERVATION									
	f. INACTIVE					6-30-52				
17. LENGTH OF RESERVOIR 0.208 MILES			AV. WIDTH OF RESERVOIR .024 MILES							
WATERSHED	18. TOTAL DRAINAGE AREA 0.535 SQ. MI.			22. MEAN ANNUAL PRECIPITATION 23.00 INCHES						
	19. NET SEDIMENT CONTRIBUTING AREA 0.535 SQ. MI.			23. MEAN ANNUAL RUNOFF 0.70 INCHES						
	20. LENGTH 0.556 MILES; AV. WIDTH 0.962 MILES			24. MEAN ANNUAL RUNOFF 37.33 AG.-FT.						
	21. MAX. ELEV.			MIN. ELEV.			25. CLIMATIC CLASSIFICATION sub-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.		
	6-30-1952	-	-	-	-	3.150	15.197	28.41		
	4-18-1958	5.796	5.796	Det. Range	5	3.150	13.463	25.16		
	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	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			
	4-18-58	1.734	0.299	0.559	1.734	0.299	0.559			
	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	c. AV. ANNUAL	d. TOT. TO DATE	e. PERIOD	f. TOT. TO DATE			
4-18-58	70.95	863.82	863.82	01.97	11.41	-	-			

1/ Sec. 44, International & Great Northern Railroad Co., Block #1, 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 = (28.41 = 0.76) Est. trap efficiency = 97%

Sediment load adjusted for trap efficiency .559 = .576 ac. ft. sq. mi./year

Vol. weight ratio = 1.14 all samples exposed to air; dry pond.

48. AGENCY SUPPLYING DATA Soil Conservation Service
Stillwater, Oklahoma

49. DATE Nov. 13, 1958