

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

Harrison  
No. 2  
NAME OF RESERVOIR

SOIL CONSERVATION SERVICE  
50 - 22  
DATA SHEET NO.

DAM	1. OWNER <b>W. C. Harrison</b>			2. RIVER <b>Unnamed</b>		3. STATE <b>Texas</b>		
	4. SEC. <b>2/</b> TWP. RANGE		5. NEAREST TOWN <b>Canadian</b>		6. COUNTY <b>Hemphill</b>			
	7. STREAM BED ELEV.			8. TOP OF DAM ELEV. <b>104.0</b>		9. SPILLWAY CREST ELEV. <b>100.00</b>		
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					9-10-1951		
	b. POWER							
	c. WATER SUPPLY	<b>1/ 100</b>	<b>3.057</b>		<b>15.655</b>	16. DATE NORMAL OPER. BEGAN		
	d. IRRIGATION							
	e. CONSERVATION					9-10-1951		
f. INACTIVE								
17. LENGTH OF RESERVOIR		<b>0.145</b>	MILES	AV. WIDTH OF RESERVOIR		<b>0.033</b>	MILES	
18. TOTAL DRAINAGE AREA		<b>0.292</b>	SQ. MI.	22. MEAN ANNUAL PRECIPITATION		<b>23.00</b>	INCHES	
19. NET SEDIMENT CONTRIBUTING AREA		<b>0.292</b>	SQ. MI.	23. MEAN ANNUAL RUNOFF		<b>0.70</b>	INCHES	
20. LENGTH		<b>0.76</b>	MILES	AV. WIDTH		<b>0.38</b>	MILES	
24. MEAN ANNUAL RUNOFF				<b>37.33</b>			AG-FT.	
21. MAX. ELEV.		MIN. ELEV.		25. CLIMATIC CLASSIFICATION <b>Sub-humid</b>				
WATERSHED	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 <sub>w</sub> RATIO AC-FT. PER SQ. MI.
	<b>9-10-51</b>	- -	-	-	-	<b>3.057</b>	<b>15.655</b>	<b>53.61</b>
	<b>4-11-58</b>	<b>6.59</b>	<b>6.59</b>	<b>Det. Range</b>	<b>5</b>	<b>3.057</b>	<b>14.242</b>	<b>48.77</b>
SURVEY DATA	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	a. MEAN ANNUAL	b. TOTAL TO DATE	
SURVEY DATA	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	
	<b>4-11-58</b>	<b>1.413</b>	<b>0.214</b>	<b>0.733</b>	<b>1.413</b>	<b>0.214</b>	<b>0.733</b>	
SURVEY DATA	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
	<b>4-11-58</b>	<b>(3) 68.53</b>	<b>1094.06</b>	<b>1094.06</b>	<b>01.37</b>	<b>9.03</b>	-	-

1/ Assumed

2/ Sec. 86, Houston & Great Northern RR Co., Block M1, 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 = (53.61 = 1.44) Est. trap efficiency = 97%.  
 Sediment load adjusted for T. E.; .733 = .756  
 Vol. weight ratio = 1.28 all samples exposed to air (dry pond).

48. AGENCY SUPPLYING DATA      Soil Conservation Service  
    Stillwater, Oklahoma

49. DATE      November 13, 1958