

RESERVOIR SEDIMENT  
DATA SUMMARY

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

SCS-34 Rev. 6-66

Uncle John Site No. 7

NAME OF RESERVOIR

46 - 55

DATA SHEET NO.

DAM	1. OWNER <u>Leroy Zummellon</u>				2. STREAM <u>Uncle John</u>		3. STATE <u>Oklahoma</u>					
	4. SEC. <u>22</u> TWP. <u>14N</u> RANGE <u>7W</u>			5. NEAREST P.O. <u>El Reno</u>		6. COUNTY <u>Canadian</u>						
	7. LAT. <u>35° 42' 20"</u> LONG. <u>97° 52' 10"</u>			8. TOP OF DAM ELEVATION <u>1200.7</u>		9. SPILLWAY CREST ELEV. <u>1194.0</u>						
RESERVOIR	10. STORAGE ALLOCATION		11. ELEVATION TOP OF POOL		12. ORIGINAL SURFACE AREA, ACRES		13. ORIGINAL CAPACITY, ACRE-FEET		14. GROSS STORAGE, ACRE-FEET		15. DATE STORAGE BEGAN	
	a. FLOOD CONTROL		<u>1194.0</u>		<u>341.7</u>		<u>2990.8</u>		<u>3649.5</u>		<u>5/1/68</u>	
	b. MULTIPLE USE											
	c. POWER											
	d. WATER SUPPLY											
	e. IRRIGATION										16. DATE NORMAL OPER. BEGAN	
	f. CONSERVATION <u>1/</u>		<u>1178.5</u>		<u>82.90</u>		<u>371.6</u>		<u>658.7</u>		<u>5/1/68</u>	
	g. INACTIVE <u>2/</u>		<u>1172.7</u>		<u>40.6</u>		<u>287.1</u>		<u>287.1</u>			
17. LENGTH OF RESERVOIR <u>1.136</u> MILES				AV. WIDTH OF RESERVOIR <u>0.47</u> MILES								
WATERSHED	18. TOTAL DRAINAGE AREA <u>9.58</u> SQ. MI.				22. MEAN ANNUAL PRECIPITATION <u>28.27</u> INCHES							
	19. NET SEDIMENT CONTRIBUTING AREA <u>9.05</u> SQ. MI.				23. MEAN ANNUAL RUNOFF <u>3.0</u> INCHES							
	20. LENGTH <u>5.25</u> MILES		AV. WIDTH <u>1.8</u> MILES		24. MEAN ANNUAL RUNOFF <u>1532.7</u> AC.-FT.							
	21. MAX. ELEV. <u>Kst. 1250.0</u> MIN. ELEV. <u>1151.1</u>				25. ANNUAL TEMP.: MEAN <u>61°</u> RANGE- <u>15°</u> to <u>114°</u>							
	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/I. RATIO, AC.-FT. PER AC.-FT.			
<u>5/1/68</u>		<u>-</u>	<u>-</u>	<u>Range Contour (D)</u>	<u>55R</u>	<u>40.62</u>	<u>287.1</u>	<u>(2.38)</u>				
<u>9/10/73</u>		<u>5.36</u>	<u>5.36</u>	<u>"</u>	<u>2' C.I.</u>	<u>(341.72)</u>	<u>(3649.5)</u>					
					<u>55R</u>	<u>40.6</u>	<u>274.3</u>	<u>(2.36)</u>				
					<u>2' C.I.</u>	<u>(339.3)</u>	<u>(3623.4)</u>					
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				
SURVEY DATA	26. DATE OF SURVEY		37. PERIOD CAPACITY LOSS, 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				
	<u>5/1/68</u>		<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>			
<u>9/10/73</u>		<u>12.8</u>	<u>2.39</u>	<u>0.26</u>	<u>12.8</u>	<u>2.39</u>	<u>0.26</u>					
		<u>(26.1)</u>	<u>(4.87)</u>	<u>(0.54)</u>	<u>(26.1)</u>	<u>(4.87)</u>	<u>(0.54)</u>					
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. ANN.	b. TOT. TO DATE	a. PERIOD	b. TOT. TO DATE			
<u>5/1/68</u>		<u>-</u>										
<u>9/10/73</u>		<u>34 Sed. P(3)</u>	<u>192.5</u>	<u>192.5</u>	<u>0.83</u>	<u>4.46</u>	<u>(0.13)</u>	<u>(0.72)</u>				
		<u>89 Det. P(3)</u>	<u>(735)</u>	<u>(735)</u>								

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET BELOW, AND ABOVE, CREST ELEVATION																
	94-90	90-86	86-82	82-78	78-76	76-72	72-70	70-66	66-62	62-58	58-54						
	PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION																
5/1/68	-	-	-	-	-	-	-	-	-	-	-	-	-				
9/10/73	0	0	0	0	0	50.8	0	0.9	4.3	17.7	26.3						
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	
See Attached Sheet																	
47. REMARKS AND REFERENCES																	
<p>1/ Storage below riser which includes both first &amp; second 50 year sediment pools</p> <p>2/ Storage below riser for first 50 year sediment pool</p> <p>Land Use 1968: 50% cropland, 49% pasture-rangeland, 1% miscellaneous</p> <p>Land Use 1973: 48% cropland, 50% pasture-rangeland, 2% miscellaneous</p> <p>Geology: Flowerpot FM, Permian Age.</p> <p>Land Resource Area: Central Rolling Red Prairies</p>																	
48. AGENCY MAKING SURVEY					Oklahoma Watershed & River Basin Planning Staff					50. DATE							
49. AGENCY SUPPLYING DATA					SCS U.S.D.A.					12/28/73							