

RESERVOIR SEDIMENT  
DATA SUMMARY  
SCS-34 Rev. 6-62

Double Creek Site #5  
NAME OF RESERVOIR

Sheet 1 of 2  
U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE  
45-36  
DATA SHEET NO.

DAM	1. OWNER <b>Todd</b>			2. STREAM <b>Caney</b>			3. STATE <b>Oklahoma</b>								
	4. SEC. <b>32</b> TWP. <b>24N</b> RANGE <b>13E</b>			5. NEAREST TOWN <b>Ramona</b>			6. COUNTY <b>Washington</b>								
	7. STREAM BED ELEVATION			8. TOP OF DAM ELEVATION <b>722.5</b>			9. SPILLWAY CREST ELEV.								
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. MULTIPLE USE										2-1-55				
	b. FLOOD CONTROL		717.5		68.65				747.36						
	c. POWER														
	d. WATER SUPPLY										16. DATE NORMAL OPER. BEGAN				
	e. IRRIGATION														
	f. CONSERVATION														
	g. SEDIMENT										2-1-55				
h. INACTIVE		702.5		16.72				144.95							
17. LENGTH OF RESERVOIR		0.96		MILES		AV. WIDTH OF RESERVOIR		0.11		MILES					
WATERSHED	18. TOTAL DRAINAGE AREA		2.39		SQ. MI.		22. MEAN ANNUAL PRECIPITATION		38.00		INCHES				
	19. NET SEDIMENT CONTRIBUTING AREA		2.36		SQ. MI.		23. MEAN ANNUAL RUNOFF		7.08		INCHES				
	20. LENGTH		2.12		MILES		AV. WIDTH		1.13		MILES				
	21. MAX. ELEV.				MIN. ELEV.				25. CLIMATIC CLASSIFICATION		Humid				
	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.
2-1-55		-		-		-		-		16.72		144.95		60.67	
12-17-57		2.88		2.88		Contour & Detail Range		10		16.72		141.51		59.21	
4-26-60		2.36		5.24				16.72		137.05		57.34			
								16.72		738.86		309.15			
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 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									
	2-1-55		-			-									
	12-17-57		3.44 (3.44)			1.19 (1.19) 0.50 (0.50)									
	4-26-60		4.46 (5.06)			1.89 (2.14) 0.80 (0.91)									
26. DATE OF SURVEY		39. AV. DRY WGT. LBS. PER CU. FT.		40. SED. DEP. TONS PERSQ. MI.-YR.		41. STORAGE LOSS PCT.		42. SED. INFLOW PPM							
		a. PERIOD b. TOTAL TO DATE		a. AV. AN. b. TOT. TO DATE		a. PERIOD b. TOT. TO DATE									
12-17-57		58.29		635 (635)		.82 2.37 (.46)									
4-26-60		58.29		1016 (1155)		1.04 5.45 (1.14)									

( ) Both sediment and flood pool

43. DEPTH DESIGNATION RANGE IN FEET ABOVE, AND BELOW, CREST ELEVATION

PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET ABOVE, AND BELOW, CREST ELEVATION											
	717.5-714.5	714.5-710.5	710.5-706.5	706.5-702.5	702.5-698.5	698.5-694.5	694.5-690.5	690.5-686.5	686.5-682.5	682.5-678.5		
12-17-57	0	0	0	0	0	16	26	33	4	21		

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. Original Capacity ELEVATION-AREA-CAPACITY DATA								
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY
717.5	68.65	747.36	682.5	0.53	0.72	694.5	8.43	45.42
714.5	56.27	560.29	678.5	.01	0	686.5	5.78	17.24
710.5	40.63	367.83	<u>1957 Capacity</u>			682.5	1.61	3.35
706.5	27.62	232.50	717.5	68.65	743.92			
702.5	16.72	144.95	714.5	56.27	556.85			
698.5	11.62	88.69	710.5	40.63	364.39			
694.5	8.69	48.31	706.5	27.62	229.06			
690.5	5.98	19.24	702.5	16.72	141.51			
686.5	1.93	4.20	698.5	11.62	85.27			

47. REMARKS AND REFERENCES

48. AGENCY MAKING SURVEY

49. AGENCY SUPPLYING DATA

50. DATE \_\_\_\_\_



26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET ABOVE, AND BELOW CREST ELEVATION										
	17.5	14.5	14.5	10.5	6.5	2.5	1.5	0.5	0.5	0.5	0.5
	PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION										
	0	0	0	0	0	33	32	23	3	9	

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. 1960 Capacity			ELEVATION-AREA-CAPACITY DATA					
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY
717.5	68.65	738.86	690.5	5.47	16.44			
714.5	56.27	551.79	686.5	1.53	3.26			
710.5	40.63	359.93	682.5	-	-			
706.5	27.62	224.60						
702.5	16.72	137.05						
698.5	11.11	80.79						
694.5	7.92	43.00						

47. REMARKS AND REFERENCES  
 Land Use - Native Pasture 100%  
 Geology - Ochelata Dewey Limestone and Nellie Bly formations.

48. AGENCY MAKING SURVEY Soil Conservation Service  
 49. AGENCY SUPPLYING DATA Soil Conservation Service  
 50. DATE \_\_\_\_\_

RESERVOIR SEDIMENT  
DATA SUMMARY

SCS-34 Rev. 6-66

Double Creek Site #5

NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

45- 36a

DATA SHEET NO.

DAM	1. OWNER <b>Todd</b>			2. STREAM <b>Caney</b>			3. STATE <b>Oklahoma</b>									
	4. SEC. <b>32</b> TWP. <b>24N</b> RANGE <b>13E</b>			5. NEAREST P.O. <b>Ramona</b>			6. COUNTY <b>Washington</b>									
	7. LAT. ° ' " LONG. ° ' "			8. TOP OF DAM ELEVATION <b>722.5</b>			9. SPILLWAY CREST ELEV. <b>717.5</b>									
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		<b>717.5</b>		<b>69.74</b>		<b>602.50</b>		<b>747.38</b>		<b>2-1-55</b>					
	b. MULTIPLE USE															
	c. POWER															
	d. WATER SUPPLY															
	e. IRRIGATION										<b>2-1-55</b>					
	f. CONSERVATION															
	g. INACTIVE		<b>702.5</b>		<b>17.00</b>		<b>144.88</b>		<b>144.88</b>							
17. LENGTH OF RESERVOIR <b>0.70</b> <sup>1/</sup> MILES				AV. WIDTH OF RESERVOIR <b>0.1</b> MILES												
WATERSHED	18. TOTAL DRAINAGE AREA <b>2.39</b> SQ. MI.				22. MEAN ANNUAL PRECIPITATION <b>38</b> INCHES											
	19. NET SEDIMENT CONTRIBUTING AREA <b>2.36</b> SQ. MI.				23. MEAN ANNUAL RUNOFF <b>7.08</b> INCHES											
	20. LENGTH <b>2.12</b> MILES		AV. WIDTH <b>1.13</b> MILES		24. MEAN ANNUAL RUNOFF <b>902</b> AC.-FT.											
	21. MAX. ELEV. MIN. ELEV.				25. ANNUAL TEMP: MEAN RANGE <b>Humid</b>											
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.	
	Feb. 1955						Range		20		69.74 (17.00)		747.38 (144.88)		313	
	Apr. 1964		9.2		9.2		Range		20		69.74 (16.91)		734.29 (133.11)		307	
	Sept. 1969		5.5		14.7		Range		20		69.44 (17.07)		730.53 (130.49)		306	
	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 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			
	Apr. 1964		13.09 (11.77)		1.42 (1.28)		0.60 (.54)		13.09 (11.77)		1.42 (1.28)		0.60 (.54)			
Sept. 1969		3.76 (2.62)		.68 (.48)		.29 (.20)		16.85 (14.39)		1.15 (.98)		.49 (.42)				
26. DATE OF SURVEY		39. AV. DRY WGT., LBS. PER CU. FT.		40. SED. DEP., TONS PERSQ. 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		
Apr. 1964		54.3 <sup>2/</sup>		710 (639)		710 (639)		.19 (.88)		1.75 (8.12)						
Sept. 1969		54.3 <sup>3/</sup>		343 (237)		580 (497)		.15 (.68)		2.25 (9.93)						

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET BELOW, AND ABOVE, CREST ELEVATION													
	31.5-33.0	27.5-31.5	23.5-27.5		19.5-23.5	15.0-19.5	7.0-15.0	crest-7.5						
PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION														
Apr. 1964	5.5	28.8	24.4		19.7	11.5	9.5	0.6						
Sept. 1969	4.4	30.3	27.1		16.9	6.7	8.0	6.6						
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
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														
Note: Numbers in parentheses pertain to conservation pool only.														
1/ Length of secondary arm = 0.43 mi.														
2/ Average of 20 samples. Collected Jan. 1965.														
3/ Average of 14 samples. Collected Sept. 1969.														
48. AGENCY MAKING SURVEY                      SCS and ARS														
49. AGENCY SUPPLYING DATA                      SCS														
50. DATE                      April 1970														