



26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET BELOW, AND ABOVE, CREST ELEVATION														
	CR-04	04-08	08-12	14-17	17-19	19-21	21-23	23-25	25-27	27-29	29-31				
	PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION														
7-5-72	0	2	0	0	10	8	14	16	17	11	13	9			
7-10-80	39	17	4	11	7	4	1	1	2	9	6	1			
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>Figures in parentheses include sediment and flood pools.</p> <p>Land Use: 1968 - 15% cropland, 70% range, 13% forest, 2% miscellaneous.</p> <p>          1972 - 10% cropland, 74% range, 15% forest, 1% miscellaneous.</p> <p>          1980 - 8% cropland, 76% range, 15% forest, 1% miscellaneous.</p> <p>Geology: Wellington-Admire FM. Permian Age.</p> <p>Land Resource Area: Central Rolling Red Prairie.</p>															
48. AGENCY MAKING SURVEY Oklahoma Watershed Planning Staff															
49. AGENCY SUPPLYING DATA SCS,USDA															
50. DATE 11-7-80															

## Upper Black Bear Site No. 64

## ELEVATION-AREA-CAPACITY DATA

Elevation	Area	Capacity	Elevation	Area	Capacity
<u>Original Survey (1968)</u>			<u>1972 Survey</u>		
1039.0	0.20	0.13			
1041.0	3.83	3.38	1040.0	0.68	0.27
1043.0	7.65	14.65	1042.0	4.77	5.72
1045.0	9.20	31.53	1044.0	6.96	17.45
1047.0	10.10	50.82	1046.0	8.61	32.57
1049.0	11.33	72.21	1048.0	9.37	50.10
1051.0	13.12	96.59	1050.0	11.04	70.51
1053.0	15.58	125.25	1052.0	14.12	95.67
<u>1/ 1054.8</u>	<u>17.86</u>	<u>155.38</u>	<u>1/ 1054.8</u>	<u>17.17</u>	<u>138.55</u>
1057.0	21.19	198.34	1057.0	22.54	183.16
1061.0	34.74	307.96	1061.0	33.97	293.73
1065.0	48.11	473.58	1065.0	46.99	456.15
<u>2/ 1069.0</u>	<u>63.48</u>	<u>696.20</u>	<u>2/ 1069.0</u>	<u>64.43</u>	<u>678.97</u>
<u>1980 Survey</u>					
1040.0	0.06	0.02			
1042.0	3.51	2.71			
1044.0	6.69	12.74			
1046.0	7.96	27.38			
1048.0	9.33	44.66			
1050.0	10.93	64.91			
1052.0	13.15	88.97			
<u>1/ 1054.0</u>	<u>16.05</u>	<u>129.76</u>			
1057.0	21.70	171.11			
1061.0	33.71	280.40			
1065.0	44.91	437.78			
<u>2/ 1069.0</u>	<u>61.32</u>	<u>649.02</u>			

1/ Riser.2/ Emergency spillway.

RESERVOIR SEDIMENT DATA SUMMARY

L-1 Spring Creek

46-57

NAME OF RESERVOIR

DATA SHEET NO.

DAM	1. OWNER Fred Twietmeyer		2. STREAM Spring (trib)		3. STATE Kansas			
	4. SEC. 16 TWP. 27S RANGE 4W		5. NEAREST P.O. Cheney		6. COUNTY Sedgwick			
	7. LAT. 37° 41' 55" LONG. 97° 45' 23"		8. TOP OF DAM ELEVATION 1432.3		9. SPILLWAY CREST ELEV. 1427.3			
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	1427.3	25.5	123.8	168.04	7/61		
	b. MULTIPLE USE							
	c. POWER							
	d. WATER SUPPLY					16. DATE NORMAL OPER. BEGAN		
	e. IRRIGATION							
	f. CONSERVATION					7/61		
g. INACTIVE 1/	1420.0	9.84	44.24	44.24				
WATERSHED	17. LENGTH OF RESERVOIR 0.32 MILES		AV. WIDTH OF RESERVOIR 0.12 MILES					
	18. TOTAL DRAINAGE AREA 1.03 SQ. MI.		22. MEAN ANNUAL PRECIPITATION 30.58 INCHES					
	19. NET SEDIMENT CONTRIBUTING AREA 0.99 SQ. MI.		23. MEAN ANNUAL RUNOFF 3.3 INCHES					
	20. LENGTH 1.9 MILES		AV. WIDTH 1.5 MILES		24. MEAN ANNUAL RUNOFF 181 AC.-FT.			
	21. MAX. ELEV. 1480		MIN. ELEV. 1408		25. ANNUAL TEMP: MEAN RANGE			
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/I RATIO, AC.-FT. PER AC.-FT.
	7/61	-	-	-	-	25.5	168.04	0.93
	7/77	16	16	Range	11	25.5	156.84	0.87
	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	
	7/77	11.2	0.70	0.71	11.2	0.70	0.71	
	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	
7/77	42(5)	647	647	0.42	6.7			

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET BELOW, AND ABOVE, 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

1/ Sediment pool.

48. AGENCY MAKING SURVEY                      Soil Conservation Service  
 49. AGENCY SUPPLYING DATA                  Soil Conservation Service  
 50. DATE    12/77