

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

Sandstone Creek No. 17  
NAME OF RESERVOIR

SOIL CONSERVATION SERVICE  
50-36  
DATA SHEET NO.

DAM	1. OWNER		2. RIVER <u>Currant Creek</u>		3. STATE <u>Oklahoma</u>			
	4. SEC. <u>15-22</u> TWP. <u>12N</u> RANGE <u>23W</u>		5. NEAREST TOWN <u>Cheyenne</u>		6. COUNTY <u>Roger Mills</u>			
	7. STREAM BED ELEV. <u>76.0</u>		8. TOP OF DAM ELEV. <u>131.0</u>		9. SPILLWAY CREST ELEV. <u>123.0</u>			
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	<u>123.0</u>	<u>1/ (198.00)</u>		<u>1/ (3584.88)</u>	<u>8-14-51</u>		
	b. POWER							
	c. WATER SUPPLY					16. DATE NORMAL OPER. BEGAN		
	d. IRRIGATION							
	e. CONSERVATION							
	f. INACTIVE	<u>97.0</u>	<u>1/ 60.16</u>		<u>1/ 491.00</u>	<u>8-14-51</u>		
17. LENGTH OF RESERVOIR <u>1.33</u> MILES			AV. WIDTH OF RESERVOIR <u>0.12</u> MILES					
WATERSHED	18. TOTAL DRAINAGE AREA <u>10.13</u> SQ. MI.		22. MEAN ANNUAL PRECIPITATION <u>25.00</u> INCHES					
	19. NET SEDIMENT CONTRIBUTING AREA <u>10.04</u> SQ. MI.		23. MEAN ANNUAL RUNOFF <u>1.61</u> INCHES					
	20. LENGTH <u>5.17</u> MILES	AV. WIDTH <u>1.96</u> MILES	24. MEAN ANNUAL RUNOFF <u>85.76</u> AC.-FT.					
	21. MAX. ELEV. <u>76.0</u> MIN. ELEV. <u>76.0</u>		25. CLIMATIC CLASSIFICATION <u>Sub-humid</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 <sub>w</sub> RATIO AC.-FT. PER SQ. MI.
<u>8-14-51</u>	-	-	<u>Range and</u>	-	<u>1/ 60.16</u>	<u>1/ 491.00</u>	<u>1/ 48.47</u>	
<u>10-1-56</u>	<u>5.13</u>	<u>5.13</u>	<u>Contour</u>	<u>21</u>	<u>1/ (198.00)</u>	<u>1/ (3584.88)</u>	<u>1/ (353.89)</u>	
<u>10-14-60</u>	<u>4.04</u>	<u>9.17</u>	<u>"</u>		<u>59.16</u>	<u>374.23</u>	<u>36.94</u>	
					<u>(198.00)</u>	<u>(3465.83)</u>	<u>(342.14)</u>	
					<u>50.33</u>	<u>293.20</u>	<u>28.94</u>	
					<u>(198.00)</u>	<u>(3322.44)</u>	<u>(327.98)</u>	
SURVEY DATA	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	
	<u>8-14-51</u>							
	<u>10-1-56</u>	<u>116.77</u>	<u>22.76</u>	<u>2.27</u>	<u>116.77</u>	<u>22.76</u>	<u>2.27</u>	
	<u>"</u>	<u>(119.05)</u>	<u>(23.21)</u>	<u>(2.31)</u>	<u>(119.05)</u>	<u>(23.21)</u>	<u>(2.31)</u>	
<u>10-14-60</u>	<u>81.03</u>	<u>20.06</u>	<u>2.00</u>	<u>197.80</u>	<u>21.57</u>	<u>2.15</u>		
<u>"</u>	<u>(143.30)</u>	<u>(35.49)</u>	<u>(3.53)</u>	<u>(262.44)</u>	<u>(28.62)</u>	<u>(2.85)</u>		
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
	<u>10-1-56</u>		<u>3478</u>	<u>3478</u>	<u>04.64</u>	<u>23.78</u>		
		<u>(3540)</u>	<u>(3540)</u>	<u>(00.65)</u>	<u>(03.32)</u>			
<u>10-14-60</u>	<u>70.36</u>	<u>3061</u>	<u>3295</u>	<u>04.39</u>	<u>40.28</u>			
		<u>(5418)</u>	<u>(4367)</u>	<u>00.80</u>	<u>(07.32)</u>			

( ) includes both sediment and flood pool.  
1/ Original capacity.

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET ABOVE, AND BELOW, CREST ELEVATION												
	123-120	116-112	112-108	108-104	104-100	100-97	97-96	96-92	92-88	88-84	84-80		
	PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION												
10-1-56	0	0	0	0	0	3	1	2	22	21	17	28	
10-14-60	0	0	0	1	6	19	19	4	10	12	25		
10-14-60	84-83												
	4												

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	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY			
123.0	198.00	3584.88	96.0	50.81	436.13												
120.0	167.49	3037.28	92.0	39.56	256.31												
116.0	150.47	2403.26	88.0	25.60	127.33												
112.0	127.45	1849.45	84.0	15.71	45.72												
108.0	104.69	1387.08	80.0	4.54	7.57												
104.0	87.30	1004.59	76.0	.20	0												
100.0	71.52	688.27															
97.0	60.16	491.00															

47. REMARKS AND REFERENCES Land use: Native Pasture 75%; Cultivation 23%; Miscellaneous 2%.

Geology Formation: 34% Doxey  
.17% Elk City  
.49% Ogallala

Soil Conservation Service  
Stillwater, Okla.

48. AGENCY SUPPLYING DATA

49. DATE March 26, 1962

## Continuation

U. S. Department of Agriculture

Soil Conservation Service

50-36

Data Sheet No.

## Sandstone Creek No. 17

## 46. ELEVATION - AREA - CAPACITY DATA

1956 Capacity

<u>Elevation</u>	<u>Area</u>	<u>Capacity</u>	<u>Elevation</u>	<u>Area</u>	<u>Capacity</u>
123.0	198.00	3465.83	96.0	47.24	321.67
120.0	167.49	2918.23	92.0	29.92	169.04
116.0	150.47	2284.21	88.0	22.15	65.55
112.0	127.45	1730.40	84.0	9.29	4.66
108.0	104.69	1268.01	83.0	1.32	0
104.0	87.30	885.52			
100.0	71.30	569.64			

1960 Capacity

<u>Elevation</u>	<u>Area</u>	<u>Capacity</u>	<u>Elevation</u>	<u>Area</u>	<u>Capacity</u>
123.0	198.0	3322.44	97.0	50.33	203.0
120.0	167.49	2774.84	96.0	43.09	247.00
116.0	150.47	2140.82	92.0	26.45	109.61
112.0	127.45	1587.01	88.0	17.22	23.17
108.0	104.49	1125.05	85.0	1.27	0
104.0	83.45	750.89			
100.0	62.11	461.55			

**RESERVOIR SEDIMENT  
DATA SUMMARY**

SCS-34 Rev. 6-62

**Sandstone Creek Site #17**  
NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

50-36a

DATA SHEET NO.

DAM	1. OWNER		2. STREAM Washita		3. STATE Oklahoma			
	4. SEC. 15-22 TWP. 12N RANGE 23W		5. NEAREST TOWN Cheyenne		6. COUNTY Roger Mills			
	7. STREAM BED ELEVATION		8. TOP OF DAM ELEVATION		9. SPILLWAY CREST ELEV. 123.0			
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					8-14-51		
	b. FLOOD CONTROL	123.0 *	198.00	3099.16	3591.73			
	c. POWER							
	d. WATER SUPPLY							
	e. IRRIGATION					16. DATE NORMAL OPER. BEGAN		
	f. CONSERVATION							
	g. SEDIMENT	97.0 *	60.16	492.57	492.57	8-14-51		
h. INACTIVE								
WATERSHED	17. LENGTH OF RESERVOIR 1.33 MILES		AV. WIDTH OF RESERVOIR 0.12 MILES					
	18. TOTAL DRAINAGE AREA 10.13 SQ. MI.		22. MEAN ANNUAL PRECIPITATION 25.0 INCHES					
	19. NET SEDIMENT CONTRIBUTING AREA 10.04 SQ. MI.		23. MEAN ANNUAL RUNOFF 1.0 INCHES					
	20. LENGTH 5.17 MILES		AV. WIDTH 1.96 MILES		24. MEAN ANNUAL RUNOFF 540 AC.-F.T.			
	21. MAX. ELEV.		MIN. ELEV. 0.75		25. CLIMATIC CLASSIFICATION Subhumid			
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.
	8-14-51	-	-	Range and Contour	21-R	60.2 (198.0)	492.6 (3591.7)	48.6 (354.6)
	10-1-56	5.13	5.13	2'-4' Ct		59.2 (198.0)	375.9 (3472.8)	37.1 (342.8)
	10-14-60	4.04	9.17			50.3 (198.0)	303.2 (3337.6)	29.9 (329.5)
	8-2-65	4.79	13.96			44.4 (198.0)	300.5 (3292.9)	29.7 (325.1)
	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 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		
8-14-51	-	-	-	-	-	-		
10-1-56	116.7 (118.9)	22.75 (23.18)	2.27 (2.31)	116.7 (118.9)	2275 (23.18)	2.27 (2.31)		
10-14-60	72.7 (135.2)	18.00 (33.47)	1.79 (3.33)	189.4 (254.1)	20.65 (27.71)	2.06 (2.76)		
8-2-65	2.7 (44.7)	0.56 (9.33)	0.06 (0.93)	192.1 (298.8)	13.76 (21.40)	1.37 (2.13)		
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. AN.	b. TOT. TO DATE	a. PERIOD	b. TOT. TO DATE	
10-1-56	70.36 (3)	3479 (3539)	3479 (3539)	4.62 (0.65)	23.69 (3.31)			
10-14-60	59.00 (3)	2300 (4279)	2647 (3547)	4.19 (0.77)	38.45 (7.07)			
8-2-65 1/		77 (1195)	1760 (2737)	2.79 (0.60)	39.00 (8.32)			

\* Assumed Elevation.

1/ No samples taken.

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET ABOVE, AND BELOW, CREST ELEVATION													
	116-120	112-116	108-112	104-108	100-104	97-100	96-97	92-96	88-92	84-88	80-84	76-80		
PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION														
8-2-65	0	0	4	7	12	13	4	12	14	18	13	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
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						
123.0	198.00	3591.73	92.0	39.56	256.99	112.0	127.45	1734.86						
120.0	169.49	3044.14	88.0	25.60	127.72	108.0	104.69	1271.26						
116.0	150.47	2408.69	84.0	15.71	45.94	104.0	87.30	887.92						
112.0	127.45	1853.63	80.0	4.54	7.72	100.0	71.30	571.35						
108.0	104.69	1390.21	76.0	0.20	0.07	97.0	59.20	375.89						
104.0	87.30	1006.87	1956 Capacity			96.0	47.24	322.84						
100.0	71.52	689.84	123.0	198.00	3472.78	92.0	29.92	169.89						
97.0	60.16	492.57	120.0	167.49	2925.19	88.0	22.15	66.17						
96.0	50.81	437.21	116.0	150.47	2289.74	84.0	9.29	5.13						
47. REMARKS AND REFERENCES (see next sheet)														
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											
	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
83.0	1.32	0.44	97.0	50.33	303.18	112.0	127.45	1554.80
<b>1960 Capacity</b>			96.0	43.09	256.56	108.0	99.38	1102.42
123.0	198.00	3337.63	92.0	28.60	114.21	104.0	82.25	739.79
120.0	167.49	2790.03	88.0	17.22	23.60	102.0	68.07	589.62
116.0	150.47	2154.56	85.0	1.27	.42	100.0	62.11	459.42
112.0	127.45	1599.52	<b>1965 Capacity</b>			97.0	44.37	300.45
108.0	104.49	1136.52	123.0	198.00	3292.90	96.0	42.00	257.31
104.0	83.45	761.52	120.0	167.49	2745.31	94.0	35.76	179.60
100.0	62.11	471.53	116.0	150.47	2109.86	92.0	28.50	115.45

47. REMARKS AND REFERENCES (see next sheet)

48. AGENCY MAKING SURVEY \_\_\_\_\_

49. AGENCY SUPPLYING DATA \_\_\_\_\_

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





Sandstone Creek Site #17 - Continued

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25. 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
90.0	22.45	64.60						
88.0	15.47	26.89						
86.0	8.11	3.71						
85.0	.52	.17						

47. REMARKS AND REFERENCES

Land use-native pasture 75%; cultivation 23%; miscellaneous 2%  
 Geology - Doxey Shale 34%, Elk City Sandstone 17%, Ogallala 49%  
 Decrease in Reservoir Sediment for 1965 survey evidently due to installation of 3 drop structures in 1961.

( ) Includes both sediment and flood pools.

48. AGENCY MAKING SURVEY  
 49. AGENCY SUPPLYING DATA SCS, Stillwater, Oklahoma

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

RESERVOIR SEDIMENT  
DATA SUMMARY

Sandstone Site No. 17

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

SCS-34 Rev. 6-66

NAME OF RESERVOIR

3/b  
50-34b

DATA SHEET NO.

DAM	1. OWNER James Taylor			2. STREAM Currant Creek		3. STATE Oklahoma										
	4. SEC. 15-22 TWP. 12N RANGE 23W			5. NEAREST P. O. Cheyenne, Okla.		6. COUNTY Roger Mills										
	7. LAT 35° 30' 50" LONG 99° 36' 45"			8. TOP OF DAM ELEVATION 2019.11		9. SPILLWAY CREST ELEV. 2011.71										
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		2011.17		198.00		3093.88		3584.88		8-14-51					
	b. MULTIPLE USE															
	c. POWER															
	d. WATER SUPPLY										16. DATE NORMAL OPER. BEGAN					
	e. IRRIGATION															
	f. CONSERVATION															
	g. INACTIVE 1/		1985.71		60.16		491.00		491.00		8-14-51					
WATERSHED	17. LENGTH OF RESERVOIR 1.33 MILES				AV. WIDTH OF RESERVOIR 0.12 MILES											
	18. TOTAL DRAINAGE AREA 10.13 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 25.0 INCHES											
	19. NET SEDIMENT CONTRIBUTING AREA 10.04 SQ. MI.				23. MEAN ANNUAL RUNOFF 1.20 INCHES											
	20. LENGTH 5.17 MILES		AV. WIDTH 1.96 MILES		24. MEAN ANNUAL RUNOFF 648 AC.-FT.											
	21. MAX. ELEV. 2360.0		MIN. ELEV. 1948.87		25. ANNUAL TEMP: MEAN 59.6° RANGE 24° - 96°											
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.	
	8-14-51		-		-		Detail Topog		21 Ranges		60.2(198.0)		491.0(3584.9)		0.76(5.53)	
	10-1-56		5.13		5.13		Detail Topog		21 Ranges		59.2(198.0)		374.2(3465.8)		0.58(5.35)	
	10-14-60		4.04		9.17		Detail Topog		21 Ranges		50.3(198.0)		293.2(3322.4)		0.45(5.13)	
	8-2-65		4.79		13.96		Range									
	6-28-70		4.91		18.87		Contour (D)		21 R 2' C. I.		44.4(198.0)		291.5(3292.7)		0.45(5.08)	
							Range									
							Contour (D)		21 R 2' C. I.		44.9(197.5)		280.7(3276.0)		0.43(5.06)	
	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		e. 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			
	10-1-56		116.8(119.1)		22.76(23.2)		2.27(2.31)		116.8(119.1)		22.76(23.2)		2.27(2.31)			
	10-14-60		81.0(143.4)		20.05(35.5)		2.00(3.53)		197.8(262.5)		21.57(28.6)		2.15(2.85)			
8-2-65		1.7(29.7)		0.35(6.2)		0.03(0.62)		199.5(292.2)		14.29(20.9)		1.42(2.08)				
6-28-70		10.8(16.7)		2.20(3.4)		0.22(0.34)		210.3(308.9)		11.14(16.4)		1.11(1.63)				
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		
10-1-56		70.4		3478(3540)		3478(3540)		4.6(0.7)		23.8(3.3)						
10-14-60		59.0(3)		3061(5418)		3295(4367)		4.4(0.8)		40.3(7.3)						
8-2-65		59.0(3)		38(797)		1825(2676)		2.9(0.6)		40.6(8.3)						
6-28-70		59.0 SedP(3)		283(526)		1426(2479)		2.3(0.5)		42.8(8.6)						
		93.0 DetP(3)														

2010 Sed Av. 60 lbs

157

80  
76

6

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET BELOW, AND ABOVE, CREST ELEVATION											
	123	120	116	112	108	104	100	97	96	92	88	84
	120	116	112	108	104	100	97	96	92	88	84	80
PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION												
10-1-56	0	0	0	0	0	3	1	2	22	21	17	28
10-14-60	0	0	0	1	6	19	19	4	10	12	25	4
8-2-65	0	0	0	4	7	12	13	4	12	14	18	16
6-28-70	0	0	0	1	7	20	4	5	24	3	36	

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 2/ ELEVATION-AREA-CAPACITY DATA								
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY
123.0	198.0	3591.7	92.0	39.7	257.0	112	127.5	1734.9
120.0	169.5	3044.1	88.0	25.6	127.7	108	104.7	1271.3
116.0	150.5	2408.7	84.0	15.7	45.0	104	87.3	887.9
112.0	127.5	1853.6	80.0	4.54	7.7	100	71.3	571.4
108.0	104.7	1390.2	76.0	0.2	0.07	97	59.2	375.9
104.0	87.3	1006.9				96	47.2	322.8
100.0	71.5	689.8	123.0	198.0	3472.8	92	29.9	169.9
97.0	60.2	492.6	120.0	167.5	2925.2	88	22.2	66.2
96.0	50.8	437.2	116.0	150.5	2289.7	84	9.3	5.1

47. REMARKS AND REFERENCES

1/ Sediment pool

2/ See attached sheet for elevation-area-capacity data

Land Use: Cropland 23%, Pasture-Rangeland 75%, Misc. 2% - 1965  
 Cropland 10%, Pasture-Rangeland 88%, Misc. 2% - 1970

Geology: Doxey Shale 34% Elk City Sandstone 17% Ogallala 49%

Land Resource Area: Central Rolling Red Plains

( ) Figures in parentheses include sediment and flood pools.

Three grade stabilization structures built in 1961

48. AGENCY MAKING SURVEY Oklahoma Watershed Planning Staff

49. AGENCY SUPPLYING DATA SCS U.S.D.A.

50. DATE November 25, 1970

SITE 17 SANDSTONE

1960 Capacity

Elevation	Area	Capacity
123.0	198.0	3337.6
120.0	167.5	2790.0
116.0	150.5	2154.6
112.0	127.5	1599.5
108.0	104.5	1136.5
104.0	83.5	761.5
100.0	62.1	471.5
<u>97.0</u>	<u>50.3</u>	<u>303.2</u>
96.0	43.1	256.6
92.0	28.6	114.21
88.0	17.2	23.60
85.0	1.3	0.4

1965 Capacity

Elevation	Area	Capacity
123.0	198.0	3292.9
120.0	167.5	2745.3
116.0	150.5	2109.9
112.0	127.5	1554.8
108.0	99.4	1102.4
104.0	82.3	739.8
102.0	68.1	589.6
100.0	62.1	459.4
<u>97.0</u>	<u>44.4</u>	<u>300.5</u>
96.0	42.0	257.3
94.0	35.8	179.6
92.0	28.5	115.5
90.0	22.5	64.60
88.0	15.5	26.89
86.0	8.11	3.71
85.0	0.52	0.2

1970 Capacity

Elevation	Area	Capacity
123.0	197.5	3276.0
121.0	180.1	2898.5
119.0	169.1	2549.4
117.0	155.2	2225.2
115.0	140.8	1929.3
113.0	127.7	1658.8
111.0	118.1	1411.1
109.0	107.1	1186.0
107.0	95.2	983.8
105.0	84.3	804.4
103.0	75.8	644.4
101.0	65.6	503.2
99.0	52.2	381.6
<u>97.0</u>	<u>44.9</u>	<u>280.7</u>
95.0	35.8	200.1
93.0	29.5	134.8
91.0	24.1	81.3
89.0	18.7	38.6
87.0	11.8	8.4
86.0	4.3	0.7