

RESERVOIR SEDIMENTATION  
DATA SUMMARY

Whiteshield Creek No. 4

50 - 41

NAME OF RESERVOIR

DATA SHEET NO.

DAM	1. OWNER F. M. McAdams			2. RIVER Trib. of Whiteshield Cr.		3. STATE Oklahoma		
	4. SEC. 26 TWP. 12N RANGE 20W			5. NEAREST TOWN Elk City		6. COUNTY Beckham		
	7. STREAM BED ELEV. 1980.9 MSL 1/			8. TOP OF DAM ELEV. 2022.8 1/		9. SPILLWAY CREST ELEV. 2018.8 1/		
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	2018.8 1/	23.89	-	223.43	1-21-49		
	b. POWER							
	c. WATER SUPPLY					16. DATE NORMAL OPER. BEGAN		
	d. IRRIGATION							
	e. CONSERVATION	2010.0 1/	9.86	-	74.64	1-21-49		
f. INACTIVE								
17. LENGTH OF RESERVOIR		0.55 2/	MILES	AV. WIDTH OF RESERVOIR		0.07	MILES	
WATERSHED	18. TOTAL DRAINAGE AREA		0.62 4/	SQ. MI.	22. MEAN ANNUAL PRECIPITATION		26.67	INCHES
	19. NET SEDIMENT CONTRIBUTING AREA		0.60	SQ. MI.	23. MEAN ANNUAL RUNOFF		1.56	INCHES
	20. LENGTH	1.20	MILES	AV. WIDTH	0.75	MILES	24. MEAN ANNUAL RUNOFF 83.19 AC.-FT.	
	21. MAX. ELEV.	-	MIN. ELEV.	1980.9	25. CLIMATIC CLASSIFICATION Sub-humid			
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.
	1-21-49 September 8, 1959	- 10.70	- 10.70	- Det. Range	- 6	23.89 23.89	223.43 207.72	372.38 346.20
	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	
	1-21-49 9-8-59	- 12.91 (15.71)3/	- 1.21 (1.47)	- 4/ 2.02 (2.45)	- 12.91 (15.71)3/	- 1.21 (1.47)	- 4/ 2.02 (2.45)	
	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
9-8-59	75.68	3329.59 4/ (4038.36)	3329.59 4/ (4038.36)	01.62 (00.66)	17.30 (7.03)			

1/ Mean sea level, 2011.8 MSL = 100.0 assumed elevation.  
 2/ .09 mile in one side arm included.  
 3/ Contains 2.80 acre feet of sediment in flood pool.  
 4/ Revised D. A. (excluding DA from terraces).

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
2018.8	23.89	223.43	1998.0	1.87	7.07			
2018.0	22.79	204.76	1994.0	0.40	2.88			
2016.0	19.72	162.29	1980.9	-	-			
2014.0	16.27	126.36						
2010.0	9.86	74.64						
2006.0	6.96	41.15						
2002.0	4.24	18.98						

47. REMARKS AND REFERENCES  
 CI Ratio = (120.39 = 1.45); (360.37 = 4.33). 4/  
 Est. trap efficiency = 97%.  
 Geology = Doxey Shale, Quartermaster Formation  
 Land Use: Cultivated 68%; Pasture 32%; Formerly Cultivated -, Survey of March 1960.

48. AGENCY SUPPLYING DATA      Soil Conservation Service  
 Stillwater, Oklahoma      49. DATE April 18, 1960

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

Whiteshield Creek Site #4  
NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

50- 41a  
DATA SHEET NO.

DAM	1. OWNER <b>F. M. McAdams</b>		2. STREAM <b>Washita</b>		3. STATE <b>Oklahoma</b>			
	4. SEC. <b>26</b> TWP. <b>12N</b> RANGE <b>20W</b>		5. NEAREST TOWN <b>Elk City</b>		6. COUNTY <b>Beckham</b>			
	7. STREAM BED ELEVATION <b>1980.9</b>		8. TOP OF DAM ELEVATION <b>2022.80</b>		9. SPILLWAY CREST ELEV. <b>2018.80</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. MULTIPLE USE					1-21-49		
	b. FLOOD CONTROL	2018.80	23.89	148.79	223.43			
	c. POWER							
	d. WATER SUPPLY					16. DATE NORMAL OPER. BEGAN		
	e. IRRIGATION							
	f. CONSERVATION							
	g. SEDIMENT	2010.00	9.86	74.64	74.64	1-21-49		
	h. INACTIVE							
17. LENGTH OF RESERVOIR		0.55	MILES	AV. WIDTH OF RESERVOIR		0.07		
						MILES		
WATERSHED	18. TOTAL DRAINAGE AREA		0.62	SQ. MI.	22. MEAN ANNUAL PRECIPITATION		26.67	
							INCHES	
	19. NET SEDIMENT CONTRIBUTING AREA		0.60	SQ. MI.	23. MEAN ANNUAL RUNOFF		1.56	
							INCHES	
	20. LENGTH		1.20	MILES	AV. WIDTH		0.75	
						MILES		
21. MAX. ELEV.		MIN. ELEV. 1980.9		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.
	1-21-49	-		Range	6	9.86	74.64	120.39
	9-8-59	10.70	10.70	"	"	1/ (23.89)	(223.43)	(360.37)
						9.86	61.73	99.56
						(23.89)	(207.72)	(335.03)
	8-6-64	4.91	15.61	Detail Topo		9.86	54.06	87.19
						(23.89)	(199.63)	(321.98)
	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		
9-8-59	12.91	1.21	2.02	12.91	1.21	2.02		
	(15.71)	(1.47)	(2.45)	(15.71)	(1.47)	(2.45)		
8-6-64	7.67	1.56	2.60	20.58	1.32	2.20		
	(8.09)	(1.65)	(2.75)	(23.80)	(1.52)	(2.53)		
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	
9-8-59	75.68	3329	3329	1.62	17.30			
		(4038)	(4038)	(0.66)	(7.03)			
8-6-64	75.68	4285	3626	1.77	27.57			
		(4532)	(4170)	(0.68)	(10.65)			

( ) Both sediment and flood pool

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. 1964 Capacity			ELEVATION-AREA-CAPACITY DATA					
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY
2018.8	23.89	199.63	1999.0	0	0.02			
2014.0	16.17	104.11						
2012.0	12.07	75.96						
2010.0	9.86	54.06						
2008.0	7.61	36.63						
2006.0	5.94	23.12						
2004.0	4.70	12.49						
2002.0	3.05	4.83						
2000.0	1.42	0.51						

47. REMARKS AND REFERENCES

CI Ratio = (120.39 = 1.45) ; (360.37 = 4.33).  
 Est. Trap Efficiency = 97%.  
 Geology = Doxey Shale, Quartermaster Formation.  
 Land Use - Cultivated 68%, Pasture 32% (1960).

48. AGENCY MAKING SURVEY      Soil Conservation Service  
 49. AGENCY SUPPLYING DATA      Stillwater, Oklahoma

50. DATE 9/18/64

**RESERVOIR SEDIMENT  
DATA SUMMARY**

**Whiteshield Creek Site No. 4**

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

SCS-34 Rev. 6-66

NAME OF RESERVOIR

**50- 41b**  
DATA SHEET NO.

DAM	1. OWNER <b>F. M. McAdams</b>			2. STREAM <b>Washita</b>			3. STATE <b>Oklahoma</b>					
	4. SEC. <b>26</b> TWP. <b>12N</b> RANGE <b>20W</b>			5. NEAREST P. O. <b>Elk City</b>			6. COUNTY <b>Beckham</b>					
	7. LAT. " " " " " " " " " "			8. TOP OF DAM ELEVATION <b>2022.8</b>			9. SPILLWAY CREST ELEV. <b>2018.8</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>2018.8</b>		<b>23.89</b>		<b>148.79</b>		<b>223.43</b>		<b>1-21-49</b>	
	b. MULTIPLE USE											
	c. POWER											
	d. WATER SUPPLY										16. DATE NORMAL OPER. BEGAN	
	e. IRRIGATION											
	f. CONSERVATION											
g. INACTIVE		<b>2010.0</b>		<b>9.86</b>		<b>74.64</b>		<b>74.64</b>		<b>1-21-49</b>		
WATERSHED	17. LENGTH OF RESERVOIR <b>0.55</b> MILES				AV. WIDTH OF RESERVOIR <b>0.07</b> MILES							
	18. TOTAL DRAINAGE AREA <b>0.62</b> SQ. MI.				22. MEAN ANNUAL PRECIPITATION <b>26.67</b> INCHES							
	19. NET SEDIMENT CONTRIBUTING AREA <b>0.60</b> SQ. MI.				23. MEAN ANNUAL RUNOFF <b>1.56</b> INCHES							
	20. LENGTH <b>1.20</b> MILES		AV. WIDTH <b>0.75</b> MILES		24. MEAN ANNUAL RUNOFF <b>51.58</b> AC.-F.T.							
	21. MAX. ELEV. <b>2100</b>		MIN. ELEV. <b>1980.9</b>		25. ANNUAL TEMP.: MEAN RANGE <b>Subhumid</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/I. RATIO, AC.-FT. PER AC.-FT.	
	1-21-49		-	-	Range (D)	6	9.86 (23.89)		74.6 (223.4)		1.45 (4.33)	
	9-8-59		10.70	10.70	Range (D)	6	9.86 (23.89)		61.7 (207.7)		1.20 (4.02)	
	8-6-64		4.91	15.61	Range	5 (R)	9.86 (23.89)		54.1 (199.6)		1.05 (3.87)	
	6-12-69		4.85	20.46	Contour (D)	2' C. I.	9.22 (22.60)		48.0 (179.9)		.93 (3.49)	
					Range	5 (R)						
					Contour (D)	2' C. I.						
	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					
9-8-59		12.9 (15.7)	1.21 (1.47)	2.02 (2.45)	12.9 (15.7)	1.21 (1.47)	2.02 (2.45)					
8-6-64		7.6 (8.1)	1.55 (1.65)	2.60 (2.75)	20.5 (23.8)	1.32 (1.52)	2.20 (2.53)					
6-12-69		6.1 (19.7)	1.26 (4.06)	2.10 (6.77)	26.6 (43.5)	1.30 (2.13)	2.17 (3.55)					
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				
9-8-59		75.68	3329.6 (4038.4)	3329.6 (4038.4)	1.62 (0.66)	17.3 (7.0)						
8-6-64		75.68	4285.6 (4532.9)	3626.4 (4170.2)	1.77 (0.68)	27.6 (10.7)						
6-12-69		42 Sed P(2) 88 Det P(3)	1921 (10872)	1985 (4630)	1.74 (0.95)	35.6 (19.5)						

**NOTE:** Figures in parentheses represent Sediment and Flood Control Pools. *Weighted Av. 75 lbs*

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET BELOW, AND ABOVE, CREST ELEVATION											
	2018-8 to Crest		2010		2010 (Crest)		to 2000					
PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION												
8-6-64 <u>1/</u>		13.9				86.1						
6-12-69 <u>1/</u>		38.9				61.1						

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 <u>2/</u>								
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY
<u>1964 Capacity</u>			<u>1969 Capacity</u>					
2018.8	23.89	199.63	2000.0	1.42	0.51	2008.0	7.18	31.63
2014.0	16.17	104.11	1999.0	0	0.02	2006.0	5.57	18.92
2012.0	12.07	75.96				2004.0	4.14	9.24
2010.0	9.86	54.06	2018.8	22.60	179.87	2002.0	2.33	2.86
2008.0	7.61	36.63	2016.0	17.19	124.34	2000.0	0.46	0.31
2006.0	5.94	23.12	2014.0	13.74	93.47			
2004.0	4.70	12.49	2012.0	11.30	68.47			
2002.0	3.05	4.83	2010.0	9.22	48.00			

47. REMARKS AND REFERENCES  
 Geology: Elk City Member, Quartermaster Formation, Permian Age  
 Land Use: 1969 54% Cultivation 41% Pasture-Range 5% Miscellaneous  
 1964 66% Cultivation 30% Pasture-Range 4% Miscellaneous  
 Land Resource Area: Central Rolling Red Plains

48. AGENCY MAKING SURVEY Oklahoma Watershed Planning Staff  
 49. AGENCY SUPPLYING DATA S.C.S. U.S.D.A. 50. DATE 12-4-69

RESERVOIR SEDIMENT  
DATA SUMMARY

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

Whiteshield Creek Site #4  
NAME OF RESERVOIR

50-41c

DATA SHEET NO.

SCS 34 Rev. 6-66

DAM	1. OWNER <b>F. M. McAdams</b>			2. STREAM <b>Washita</b>			3. STATE <b>Oklahoma</b>									
	4. SEC. <b>26</b> TWP. <b>12N</b> RANGE <b>20W</b>			5. NEAREST P O <b>Elk City</b>			6. COUNTY <b>Beckham</b>									
	7. LAT <b>35° 32' 40"</b> LONG <b>99° 20' 15"</b>			8. TOP OF DAM ELEVATION <b>2022.8</b>			9. SPILLWAY CREST ELEV. <b>2018.8</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		2018.8		23.89		148.79		223.43		1-21-49					
	b. MULTIPLE USE															
	c. POWER															
	d. WATER SUPPLY										16. DATE NORMAL OPER. BEGAN					
	e. IRRIGATION															
	f. CONSERVATION															
WATERSHED	g. INACTIVE		1/ 2010.0		9.86		74.64		74.64		1-21-49					
	17. LENGTH OF RESERVOIR				0.55 MILES		AV. WIDTH OF RESERVOIR				0.07 MILES					
	18. TOTAL DRAINAGE AREA				0.62 SQ. MI.		22. MEAN ANNUAL PRECIPITATION				26.67 INCHES					
	19. NET SEDIMENT CONTRIBUTING AREA				0.58 SQ. MI.		23. MEAN ANNUAL RUNOFF				1.56 INCHES					
	20. LENGTH		120 MILES		AV. WIDTH		0.52 MILES		24. MEAN ANNUAL RUNOFF				51.58 AC.-FT.			
21. MAX. ELEV.			2100			MIN. ELEV.			1980.9			25. ANNUAL TEMP: MEAN 61° RANGE -15° to 115°				
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.	
	1-21-49		-		-		Range (D)		6 (R)		9.86 (23.89)		74.6 (223.4)		1.45 (4.33)	
	9-8-59		10.70		10.70		"		"		9.86 (23.89)		61.7 (207.7)		1.20 (4.02)	
	8-6-64		4.91		15.61		Range Contour (D)		5 (R) 2' C. I.		9.86 (23.89)		54.1 (199.6)		1.05 (3.87)	
	6-12-69		4.85		20.46		"		"		9.22 (22.60)		48.0 (179.9)		0.93 (3.49)	
	6-15-74		5.01		25.47		"		"		9.56 (22.79)		45.7 (162.3)		0.89 (3.15)	
	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			
	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				
9-8-59		12.9 (15.7)		1.21 (1.47)		2.08 (2.52)		12.9 (15.7)		1.21 (1.47)		2.02 (2.52)				
8-6-64		7.6 (8.1)		1.55 (1.65)		2.67 (2.83)		20.5 (23.8)		1.32 (1.52)		2.20 (2.62)				
6-12-69		6.1 (19.7)		1.26 (4.06)		2.17 (6.97)		26.6 (43.5)		1.30 (2.13)		2.17 (3.65)				
6-15-74		2.3 (17.6)		0.46 (3.51)		0.79 (6.03)		28.9 (61.1)		1.13 (2.40)		1.88 (4.12)				
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		
9-8-59		75.68		3330 (4151)		3330 (4151)		1.6 (0.7)		17.3 (7.0)						
8-6-64		75.68		4286 (4667)		3624 (4313)		1.8 (0.7)		27.6 (10.7)						
6-12-69		42 Sed. P. (2) 88 Det. P. (3)		1983 (11564)		1985 (6278)		1.7 (1.0)		35.6 (19.5)						
6-15-74		52 Sed. P. (3) 86 Det. P. (3)		2890 (12499)		2129 (6325)		1.5 (1.1)		38.7 (27.3)						

1/ Sediment pool

Note: Figures in parentheses represent sediment and flood control pools.

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET BELOW, AND ABOVE, CREST ELEVATION														
	2018-8	Crest	2010		2010	Crest	to	2000							
PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION															
8-6-64 <u>2/</u>		13.9						86.1							
6-12-69 <u>2/</u>		38.9						61.1							
6-15-74 <u>2/</u>		52.7						47.3							
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>Geology: Elk City Member, Quartermaster Formation, Permian Age</p> <p>Land Use: 1974 56% cropland, 42% Pasture-Range, 2% miscellaneous</p> <p>          1969 54% cropland, 41% Pasture-Range, 5% miscellaneous</p> <p>          1964 66% cropland, 30% Pasture-Range, 4% miscellaneous</p> <p>Land Resource Area: Central Rolling Red Plains</p> <p><u>2/</u> Only surveys available for sediment distribution percentages.</p>															
48. AGENCY MAKING SURVEY Oklahoma Watershed & River Basin Planning Staff															
49. AGENCY SUPPLYING DATA SCS USDA															
50. DATE December 13, 1974															