

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							
770.0	0.02	0.02	780.0	6.82	27.39	790.0	32.14	200.76							
772.0	0.35	0.33	782.0	9.85	43.96	792.0	39.02	271.81							
774.0	1.67	2.18	783.5	13.18	61.18	794.0	46.55	357.27							
776.0	3.60	7.33	786.0	18.36	100.42	796.0	53.84	457.57							
778.0	4.86	15.76	788.0	25.08	143.69	798.7	65.37	617.89							
47. REMARKS AND REFERENCES															
1/ Total reservoir below emergency spillway crest elev. (798.7)															
2/ Sediment pool only															
48. AGENCY MAKING SURVEY				Sedimentation Survey Party				49. AGENCY SUPPLYING DATA				Soil Conservation Service - Texas			
												50. DATE		3-70	

RESERVOIR SEDIMENT
DATA SUMMARY

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

SCS-34 Rev. 6-66

Site 37, Chambers Creek

NAME OF RESERVOIR

51 - 37a

DATA SHEET NO.

DAM	1. OWNER A. Eltzroth			2. STREAM Trib of Chambers Cr			3. STATE Texas					
	4. SEC. TWP. RANGE			5. NEAREST P.O. Keene			6. COUNTY Johnson					
7. LAT. 32° 25'			" LONG. 97° 20'			8. TOP OF DAM ELEVATION 801.3			9. SPILLWAY CREST ELEV. 798.7			
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		798.7 1/		65.37		556.71		624.84		12-23-60	
	b. MULTIPLE USE											
	c. POWER											
	d. WATER SUPPLY											
	e. IRRIGATION										12-23-60	
	f. CONSERVATION											
g. INACTIVE		783.5 2/		13.18		68.13		68.13				
WATERSHED	17. LENGTH OF RESERVOIR 0.93 MILES				AV. WIDTH OF RESERVOIR 0.11 MILES							
	18. TOTAL DRAINAGE AREA 2.05 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 32.20 (67) INCHES							
	19. NET SEDIMENT CONTRIBUTING AREA 1.95 SQ. MI.				23. MEAN ANNUAL RUNOFF 4.25 INCHES							
	20. LENGTH 1.57 MILES		AV. WIDTH 1.31 MILES		24. MEAN ANNUAL RUNOFF 464.64 AC.-FT.							
	21. MAX. ELEV. 910.0		MIN. ELEV. 767.0		25. ANNUAL TEMP: MEAN 64°F RANGE 45°F - 84°F							
SURVEY	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/ 12-23-60		-	-	Range			65.37	624.84	1.34		
	1/ 9-23-64		3.8	3.8	Contour		38 R	65.37	619.37	1.33		
	1/ 5-23-69		4.7	8.5	(D)		2' CI	65.37	617.89	1.33		
	1/ 5-23-74		5.0	13.5				65.37	609.92	1.31		
	Rate of Survey											
	PERIOD											
	ACCL.											
	TYPE OF SURVEY											
	NO. OF RANGES OR CONTOUR INT.											
SURFACE AREA, ACRES												
CAPACITY, ACRE-Feet												
C/I. RATIO, AC.-FT. PER AC.-FT.												
2/ 12-23-60		-	-				13.18	68.13	-			
2/ 9-23-64		3.8	3.8				13.18	62.66	-			
2/ 5-23-69		4.7	8.5				13.18	61.18	-			
2/ 5-23-74		5.0	13.5				11.98	55.91	-			
SURVEY	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				
	1/ 5-23-74		7.97	1.59	0.82	14.92	1.11	0.57				
2/ 5-23-74		5.27	1.05	0.52	12.22	0.91	0.45					
SURVEY	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				
	1/ 5-23-74		-	744.30	540.84	0.18	2.39	--	--			
2/ 5-23-74		33.6 (4)	150.30	300.31	1.30	17.94	--	--				
3/ 5-23-74		98.5 (5)	594.09	257.14	--	--						

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
772.0	0.37	0.25	783.5	11.98	55.91	796.0	53.85	449.22
774.0	1.61	2.09	786.0	17.72	92.79	798.7	65.37	609.92
776.0	3.42	7.01	788.0	24.96	135.29			
778.0	4.59	15.00	790.0	32.15	192.28			
780.0	6.24	25.79	792.0	39.10	263.45			
782.0	8.58	40.56	794.0	46.46	348.95			

47. REMARKS AND REFERENCES

Geology - Woodbine Formation, Upper Cretaceous Age
Land Use - 83% Pasture, 7% Cultivated, 10% Wooded Pasture
Estimated Trap Efficiency - 97%
Land Resource Area - Cross Timbers

1/ Total reservoir below emergency spillway crest.
2/ Sediment pool only.
3/ Detention pool only.

48. AGENCY MAKING SURVEY Soil Conservation Service
49. AGENCY SUPPLYING DATA Temple, Texas
50. DATE December 1974

RESERVOIR SEDIMENT
DATA SUMMARY

IS-34 Rev. 6-66

Chambers Creek Site 37

NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

51 - 37b

DATA SHEET NO.

DAM	1. OWNER A. Eltzroth			2. STREAM Trib of Chambers			3. STATE Texas									
	4. SEC. TWP. RANGE			5. NEAREST P.O. Keene			6. COUNTY Johnson									
	7. LAT. 32° 25' 10" LONG. 97° 20' 12"			8. TOP OF DAM ELEVATION 801.3			9. SPILLWAY CREST ELEV. 798.7									
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		1/ 798.7		65.37		556.71		624.84		12-23-60					
	b. MULTIPLE USE															
	c. POWER															
	d. WATER SUPPLY										16. DATE NORMAL OPER. BEGAN					
	e. IRRIGATION										12-23-60					
	f. CONSERVATION															
g. INACTIVE		2/ 783.5		13.18		68.13		68.13								
WATERSHED	17. LENGTH OF RESERVOIR				0.93 MILES				AV. WIDTH OF RESERVOIR				0.11 MILES			
	18. TOTAL DRAINAGE AREA				2.05 SQ. MI.				22. MEAN ANNUAL PRECIPITATION				33.2 INCHES			
	19. NET SEDIMENT CONTRIBUTING AREA				1.95 SQ. MI.				23. MEAN ANNUAL RUNOFF				4.25 INCHES			
	20. LENGTH				1.57 MILES				AV. WIDTH				1.31 MILES			
	21. MAX. ELEV.				910.0				MIN. ELEV.				767.0			
								24. MEAN ANNUAL RUNOFF				464.64 AC.-FT.				
								25. ANNUAL TEMP: MEAN 64° F				RANGE 45° - 84° F				
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.	
	12-23-60		-		-		Range-		38 R		65.37		624.84		1.34	
	9-23-64		3.8		3.8		Contour		2' CI		65.37		619.37		1.33	
	5-23-69		4.7		8.5		(D)				65.37		617.89		1.33	
	5-23-74		5.0		13.5						65.37		609.00		1.31	
	4-21-80		5.9		19.4						65.37		605.00		1.30	
	26. DATE OF SURVEY		PERIOD YEARS		ACCL. YEARS		TYPE OF SURVEY		NO. OF RANGES OR CONTOUR INT.		SURFACE AREA, ACRES		CAPACITY, ACRE-FEET		C/I. RATIO, AC.-FT. PER AC.-FT.	
	12-23-60		-		-						13.18		68.13			
	9-23-64		3.8		3.8						13.18		62.66			
	5-23-69		4.7		8.5						13.18		61.18			
5-23-74		5.0		13.5						11.98		55.91				
4-21-80		5.9		19.4						11.95		52.94				
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	
1 4-21-80		4.92			0.83			0.43			19.84		1.02		0.52	
2 4-21-80		2.97			0.50			0.26			15.19		0.78		0.40	
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				
1 4-21-80		-		756.23		611.85		0.16		3.18						
2 4-21-80		40.5		387.33		352.84		1.14		22.30						
3 4-21-80		99.1		368.90		259.01										

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. 1980 ELEVATION-AREA-CAPACITY DATA								
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY
774	1.05	0.70	790	32.05	188.74			
776	3.38	4.91	792	39.01	259.69			
778	4.48	12.74	794	46.11	344.71			
780	6.04	23.22	796	53.74	444.46			
782	8.49	37.68	798.7	65.37	605.00			
783.5	11.95	52.94						
786	17.60	89.65						
788	24.90	131.94						

47. REMARKS AND REFERENCES
1/ Total reservoir below elevation 798.7.
2/ Sediment pool only.
3/ Detention pool only.

Land Resource Area: Cross Timbers.
 Geology: Woodbine Formation, Upper Cretaceous Age.

48. AGENCY MAKING SURVEY SCS, Temple, Texas
 49. AGENCY SUPPLYING DATA SCS, Temple, Texas
 50. DATE December, 1980