

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

Site No. 3, Sulphur Creek Watershed
NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

53-41

DATA SHEET NO.

DAM	1. OWNER Henry Jones			2. STREAM Lampasas River			3. STATE Texas									
	4. SEC. TWP. RANGE			5. NEAREST TOWN Lampasas			6. COUNTY Lampasas									
	7. STREAM BED ELEVATION 1132.0			8. TOP OF DAM ELEVATION 1201.5			9. SPILLWAY CREST ELEV. 1194.0									
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															
	b. FLOOD CONTROL		1194.0		145.4		2694.7		3224.7		12-24-59					
	c. POWER															
	d. WATER SUPPLY										16. DATE NORMAL OPER. BEGAN					
	e. IRRIGATION															
	f. CONSERVATION															
	g. SEDIMENT		1165.0 1/		43.9		530.0		530.0		12-24-59					
h. INACTIVE																
WATERSHED	17. LENGTH OF RESERVOIR 1.36 MILES				AV. WIDTH OF RESERVOIR 0.17 MILES											
	18. TOTAL DRAINAGE AREA 10.81 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 30.21 (54) INCHES											
	19. NET SEDIMENT CONTRIBUTING AREA 10.58 SQ. MI.				23. MEAN ANNUAL RUNOFF 3.5 INCHES											
	20. LENGTH 5.69 MILES		AV. WIDTH 1.90 MILES		24. MEAN ANNUAL RUNOFF 2017.7 AC.-FT.											
	21. MAX. ELEV.		MIN. ELEV. 1132.0		25. CLIMATIC CLASSIFICATION Subhumid											
SURVEY DATA	26. DATE OF SURVEY		27. PERIOD YEARS		28. ACCL. YEARS OF SURVEY		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/ 12-24-59		-		-		Contour (D)		2'		145.4		3224.7		298.3	
	3/ 12-24-59		-		-		"		2'		43.9		530.0		49.0	
	3/ 11-1-62		2.85		2.85		"		2'		145.4		3220.1		297.9	
	3/ 11-1-62		2.85		2.85		"		2'		43.9		525.4		48.6	
	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				
2/ 11-1-62		4.60		1.61		0.15		4.60		1.61		0.15				
3/ 11-1-62		4.60		1.61		0.15		4.60		1.61		0.15				
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				
2/ 11-1-62		-		-		-		0.05		0.14						
3/ 11-1-62		* 60.0		196.0		196.0		0.30		0.87						
4/ 11-1-62		* 85.0		277.7		277.7		-		-						

1/ Sediment reserve (top of riser). Sediment pool elev. (200 Ac.Ft or less) is 1157.0
2/ Both pools. 3/ Sediment pool only. 4/ Detention pool only. * - Assumed.

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
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
1136	0.31	0.2	1165	43.90	525.4	1186	112.38	2196.8
1138	1.37	1.7	1166	47.12	573.2	1188	119.75	2429.0
1142	4.27	12.4	1170	62.56	791.4	1190	127.54	2676.4
1146	9.41	38.7	1174	76.22	1068.8	1192	135.34	2939.3
1150	17.92	92.4	1176	82.18	1227.2	1194	145.38	3220.1
1154	22.40	174.1	1178	87.62	1397.1	1196	153.63	3519.2
1157	27.60	246.0	1180	93.77	1578.5	1198	162.84	3835.7
1158	29.43	277.7	1182	99.98	1772.4			
1162	35.68	408.0	1184	105.90	1978.4			

47. REMARKS AND REFERENCES
 Physiographic Area: Lampasas Cut Plain Geologic Formation: Marble Falls
 Land Use: Cultivated, 10%; Pasture or Rangeland, 90%.
 CI Ratio: 1.60 2/; 0.26 3/.
 Estimated Trap Efficiency: 97%

Soil Conservation Service
 Temple, Texas

48. AGENCY MAKING SURVEY
 49. AGENCY SUPPLYING DATA

50. DATE January 1964

2/ Both pools.
3/ Sediment pool only.

RESERVOIR SEDIMENT

DATA SUMMARY

SCS-34 Rev. 6-66

Site No. 3, Sulphur Creek Watershed

NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

53- 41a

DATA SHEET NO.

DAM	1. OWNER Henry Jones			2. STREAM Lampasas River		3. STATE Texas		
	4. SEC. TWP.		RANGE	5. NEAREST P. O. Lampasas		6. COUNTY Lampasas		
	7. LAT. " "		" " LONG. " "		8. TOP OF DAM ELEVATION 1201.5		9. SPILLWAY CREST ELEV. 1194.0	
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. FLOOD CONTROL	1194.0 1/	145.4	2694.7	3224.7		12-24-59	
	b. MULTIPLE USE							
	c. POWER						16. DATE NORMAL OPER. BEGAN	
	d. WATER SUPPLY						12-24-59	
	e. IRRIGATION							
	f. CONSERVATION	1165.0 2/	43.9	276.2	530.0			
g. INACTIVE	1157.0 3/	28.7	258.3	258.3				
WATERSHED	17. LENGTH OF RESERVOIR 1.36 MILES			AV. WIDTH OF RESERVOIR 0.17 MILES				
	18. TOTAL DRAINAGE AREA 10.81 SQ. MI.			22. MEAN ANNUAL PRECIPITATION 31.01 (73) INCHES				
	19. NET SEDIMENT CONTRIBUTING AREA 10.58 SQ. MI.			23. MEAN ANNUAL RUNOFF 3.50 INCHES				
	20. LENGTH 5.69 MILES		AV. WIDTH 1.90 MILES		24. MEAN ANNUAL RUNOFF 2017.74 AC.-FT.			
	21. MAX. ELEV.		MIN. ELEV. 1132.0		25. ANNUAL TEMP: MEAN 66°F RANGE 48°F - 83°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.
	12-24-59	-	-	Range Contour (D)	27 R 2' CI	145.4	3229.2	1.60
	11-1-62	2.8	2.8			145.4	3224.7	1.60
	8-21-68	5.8	8.6			145.4	3223.3	1.60
	12-24-59	-	-			43.9	534.3	-
	11-1-62	2.8	2.8			43.9	529.8	-
	8-21-68	5.8	8.6			43.9	528.4	-
	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.
	12-24-59	-	-			28.7	258.3	-
	11-1-62	2.8	2.8			28.7	253.8	-
	8-21-68	5.8	8.6			28.5	252.4	-
	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		
8-21-68	1.40	0.24	0.02	5.90	0.69	0.06		
8-21-68	1.40	0.24	0.02	5.90	0.69	0.06		
8-21-68	1.40	0.24	0.02	5.90	0.69	0.06		
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	
8-21-68	-	-	-	0.02	0.18	-	-	
8-21-68	-	-	-	0.13	1.11	-	-	
8-21-68	55*	24	72	0.27	2.32	-	-	

* Assumed

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. 1968 ELEVATION-AREA-CAPACITY DATA								
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY
1136	0.19	0.13	1157	28.54	252.36	1176	82.18	1230.82
1140	2.52	4.78	1162	35.68	412.16	1180	93.77	1581.95
1144	6.31	22.77	1165	43.90	528.40	1184	105.90	1981.52
1148	13.20	60.98	1168	54.30	678.52	1190	127.54	2679.11
1152	20.80	130.66	1172	69.26	927.04	1194	145.38	3223.30

47. REMARKS AND REFERENCES

1/ Total reservoir below emergency spillway crest elevation (1194.0)
2/ Reservoir area below principal spillway crest elevation (1165.0)
3/ Sediment pool only

48. AGENCY MAKING SURVEY Sedimentation Survey Party - Texas
49. AGENCY SUPPLYING DATA Soil Conservation Service 50. DATE February 1969

RESERVOIR SEDIMENT
DATA SUMMARY

Site No. 3, Sulphur Creek Watershed

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

CS-34 Rev. 6-66

NAME OF RESERVOIR

53 - 41b
DATA SHEET NO.

DAM	1. OWNER Jones		2. STREAM Trib. of Lampasas R		3. STATE Texas				
	4. SEC. TWP. RANGE		5. NEAREST P.O. Lampasas		6. COUNTY Lampasas				
	7. LAT. 31° 02' 26" LONG. 98° 14' 45"		8. TOP OF DAM ELEVATION 1201.5		9. SPILLWAY CREST ELEV. 1194.0				
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. FLOOD CONTROL	1/ 1194.0	145.4	2694.7	3229.2				
	b. MULTIPLE USE								
	c. POWER								
	d. WATER SUPPLY					16. DATE NORMAL OPER. BEGAN			
	e. IRRIGATION								
	f. CONSERVATION	2/ 1165.0	43.9	276.2	534.5	12/24/59			
	g. INACTIVE	3/ 1157.0	28.7	258.3	258.3				
WATERSHED	17. LENGTH OF RESERVOIR		1.36 MILES		AV. WIDTH OF RESERVOIR		0.17 MILES		
	18. TOTAL DRAINAGE AREA		10.81 SQ. MI.		22. MEAN ANNUAL PRECIPITATION		31.01 (78) INCHES		
	19. NET SEDIMENT CONTRIBUTING AREA		10.58 SQ. MI.		23. MEAN ANNUAL RUNOFF		3.50 INCHES		
	20. LENGTH		5.69 MILES		AV. WIDTH		1.90 MILES		
	21. MAX. ELEV.		1500		MIN. ELEV.		1140		
	24. MEAN ANNUAL RUNOFF		2017.74 AC.-FT.		25. ANNUAL TEMP: MEAN 66° F RANGE 48° - 83° 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.	
	1	12-24-59	-	-		145.4	3229.2	1.60	
	1	11- 1-62	2.8	2.8	Range-	145.4	3224.7	1.60	
	1	8-21-68	5.8	8.6	Contour	145.4	3223.3	1.60	
	1	5- 2-77	8.7	17.3	(D)	145.4	3196.8	1.58	
	2	12-24-59	-	-		43.9	534.5		
	2	11- 1-62	2.8	2.8		43.9	529.8		
	2	8-21-68	5.8	8.6		43.9	528.4		
	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.									
2	5- 2-77	8.7	17.3			43.9	511.1		
3	12-24-59	-	-			28.7	258.3		
3	11- 1-62	2.8	2.8			28.7	253.8		
3	8-21-68	5.8	8.6			28.5	252.4		
3	5- 2-77	8.7	17.3			28.5	236.1		
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- 2-77	26.5	3.04	0.29	32.4	1.87	0.18		
2	5- 2-77	17.3	1.99	0.19	23.4	1.35	0.13		
3	5- 2-77	16.3	1.87	0.18	22.2	1.28	0.12		
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		
1	5- 2-77	-	399.3	244.0	0.06	1.00			
4	5- 2-77 DetP	89.7	212.2	117.2					
3	5- 2-77 SedP	48.5	187.1	126.8	0.50	8.59			

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
45. RANGE IN RESERVOIR OPERATION															
WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW, AC.-FT.	WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW, AC.-FT.								
46. 1977 ELEVATION-AREA-CAPACITY DATA															
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY							
1140.0	2.00	1.33	1165.0	43.9	511.06	1192.0	135.34	2916.38							
1144.0	6.00	18.10	1168.0	54.20	657.32	1194.0	145.39	3196.77							
1148.0	12.01	53.57	1172.0	69.00	905.11										
1152.0	20.06	119.54	1176.0	82.00	1207.57										
1156.0	24.50	209.68	1180.0	93.77	1557.74										
1157.0	28.50	236.13	1184.0	105.90	1956.91										
1160.0	31.50	326.09	1188.0	119.75	2406.80										
47. REMARKS AND REFERENCES															
<u>1/</u> Total reservoir below emergency spillway crest elevation (1194.0). <u>2/</u> Reservoir below principal spillway crest elevation (1165.0). <u>3/</u> Sediment pool only. <u>4/</u> Figures represent detention and sediment reserve pool deposits.															
Land Resource Area: Grand Prairie.															
Geology: Glenrose and Travis Peak Formations of Cretaceous Age comprise the majority of the drainage; however, minor amounts of Ordovician and Mississippian-Devonian age strata outcrop in the drainage area.															
48. AGENCY MAKING SURVEY SCS, Temple, Texas															
49. AGENCY SUPPLYING DATA SCS, Temple, Texas															
50. DATE 2-78															