

RESERVOIR SEDIMENTATION  
DATA SUMMARY

Honey Creek No. 12  
NAME OF RESERVOIR

51-27  
DATA SHEET NO.

DAM	1. OWNER H. B. Dowell			2. RIVER- Trib. of Honey Cr		3. STATE Texas										
	4. SEC. TWP. RANGE			5. NEAREST TOWN McKinney		6. COUNTY Collin										
	7. STREAM BED ELEV. 617.0 m. s. l.			8. TOP OF DAM ELEV. 655.0		9. SPILLWAY CREST ELEV. 650.0										
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		650.0		48		377		528		Jan. 11, 1952					
	b. POWER										16. DATE NORMAL OPER. BEGAN					
	c. WATER SUPPLY															
	d. IRRIGATION															
	e. CONSERVATION		638.0		19		151		151							
f. INACTIVE																
WATERSHED	17. LENGTH OF RESERVOIR 0.76 MILES				AV. WIDTH OF RESERVOIR 0.10 MILES											
	18. TOTAL DRAINAGE AREA 1.284 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 37.13 (46) INCHES											
	19. NET SEDIMENT CONTRIBUTING AREA 1.258 SQ. MI.				23. MEAN ANNUAL RUNOFF 6.4 INCHES											
	20. LENGTH 1.75 MILES		AV. WIDTH 0.69 MILES		24. MEAN ANNUAL RUNOFF 341 Ac. Ft. /Sq. Mi. AG-FT											
	21. MAX. ELEV.		MIN. ELEV. 617.0		25. CLIMATIC CLASSIFICATION Humid											
SURVEY DATA	26. DATE OF SURVEY		27. PERIOD YEARS		28. AGCL. 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/ Jan. 11, 1952		---		---		Range Detail		7		48		528		411	
	1/ April 28, 1959		7.21		7.21		"		9		48		493		384	
	2/ Jan. 11, 1952		---		---		"		4		19		151		118	
	2/ April 28, 1959		7.21		7.21		"		6		17		124 *		97	
	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		d. MEAN ANNUAL		e. TOTAL TO DATE			
	April 28, 1959		6		39.24		53.90		194.60		---		---			
	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		d. TOTAL TO DATE		e. AV. ANNUAL		f. PER SQ. MI.-YEAR			
1/ April 28, 1959		35		4.85		3.86		35		4.85		3.86				
2/ April 28, 1959		27		3.74		2.97		27		3.74		2.97				
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		c. AV. ANNUAL		d. TOT. TO DATE		e. PERIOD		f. TOT. TO DATE		
1/ April 28, 1959		47.8		4,019		4,019		0.93		6.68		---		---		
2/ April 28, 1959		39.1		2,529		2,529		2.48		17.88		---		---		
3/ April 28, 1959		65.4		1,268		1,268		0.30		2.14		---		---		

- 1/ Both pools.
- 2/ Sediment pool only.
- 3/ Flood pool only.

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						
628	5	4.97	636	14	80.32	644	30	258.18						
630	7	17.33	638	17	112.38 *	646	35	325.46						
632	9	33.84	640	21	151.67	648	40	403.09						
634	11	54.49	642	26	200.23	650	48	493.09						
* - This deviation in capacity from 124 acre-feet is due to the two methods used in computing capacities. One is computed by the prismatic formula and one by the contour method. Although in this case the prismatic formula is considered the more accurate, it was considered desirable to plot capacity and runoff using the contour method in order to obtain smooth curves.														
47. REMARKS AND REFERENCES														
Average Land Use: Cultivated, 83%; Pasture, 15%; Roads, 2%.														
C/I Ratio: Flood Pool = 1.13; Sediment Pool = 0.28.														
Estimated Trap Efficiency = 97.5 <u>1</u> /; 96.5 <u>2</u> /.														
Total Annual Sediment Load, Adjusted for Trap Efficiency = 3.96 Ac.Ft./Sq.Mi. <u>1</u> / 3.08 Ac.Ft./Sq.Mi. <u>2</u> /														
Soil Conservation Service														
48. AGENCY SUPPLYING DATA				Temple, Texas				49. DATE				May 1959		

**RESERVOIR SEDIMENT  
DATA SUMMARY**

SCS-34 Rev. 6-62

Site 12 Honey Creek

NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

51- 27a

DATA SHEET NO.

DAM	1. OWNER <b>Roach and Meyercord</b>			2. STREAM <b>E.Fork Above Lavon</b>			3. STATE <b>Texas</b>																	
	4. SEC. <b>TWP.</b>		RANGE		5. NEAREST TOWN <b>McKinney</b>			6. COUNTY <b>Collin</b>																
	7. STREAM BED ELEVATION <b>617.0</b>			8. TOP OF DAM ELEVATION <b>655.0</b>			9. SPILLWAY CREST ELEV. <b>650.0</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										1-11-52													
	b. FLOOD CONTROL		<b>650.0</b>		<b>48.0</b>		<b>*385.1</b>		<b>526.6</b>															
	c. POWER										16. DATE NORMAL OPER. BEGAN													
	d. WATER SUPPLY																							
	e. IRRIGATION																							
	f. CONSERVATION																							
	g. SEDIMENT		<b>638.0</b>		<b>19.0</b>		<b>*141.5</b>		<b>141.5</b>		1-11-52													
h. INACTIVE																								
17. LENGTH OF RESERVOIR			<b>0.76</b>			MILES			AV. WIDTH OF RESERVOIR			<b>0.10</b>			MILES									
WATERSHED	18. TOTAL DRAINAGE AREA				<b>1.28</b>				SQ. MI.				22. MEAN ANNUAL PRECIPITATION				<b>37.13(46)</b>				INCHES			
	19. NET SEDIMENT CONTRIBUTING AREA				<b>1.26</b>				SQ. MI.				23. MEAN ANNUAL RUNOFF				<b>6.4</b>				INCHES			
	20. LENGTH		<b>1.75</b>		MILES		AV. WIDTH		<b>0.69</b>		MILES		24. MEAN ANNUAL RUNOFF		<b>437</b>		AC.-F.T.							
	21. MAX. ELEV.				-				MIN. ELEV.				<b>617.0</b>				25. CLIMATIC CLASSIFICATION				<b>Subhumid</b>			
	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.									
1-11-52		-		-		*Range(D)		7 Ranges		48.0		526.6		411.41										
4-28-59		7.21		7.21		"		9 "		48.0		478.0		373.44										
4-16-64		4.97		12.18		Contour(D)		2'		47.9		471.0		367.97										
1-11-52		-		-		Range(B)		4 ranges		19.0		141.5		110.55										
4-28-59		7.21		7.21		"		6 "		17.0		109.8		85.78										
4-16-64		4.97		12.18		Contour(D)		2 feet		16.8		103.7		81.02										
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												
4-28-59		48.6		6.74		5.35		55.6		4.56		3.62												
4-16-64		7.0		1.41		1.12		37.8		3.10		2.46												
4-28-59		31.7		4.40		3.49																		
4-16-64		6.1		1.23		0.98																		
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										
4-16-64		-		-		-		0.86		10.56														
4-16-64		36.73(7)		784.		1968		2.19		26.71														
4-16-64		69.32(3)		211		1752		-		-														

- 1/ Both Pools
- 2/ Sediment pool only
- 3/ Flood pool only

\*Original and 1959 Surveys recomputed using contour method and modified prismatic formula.

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
<u>1964 Capacity</u>						632	9.00	34.03
628	3.57	2.38	644	30.00	243.59	634	11.00	53.98
630	6.84	12.60	646	35.00	308.46	636	14.00	78.90
632	8.86	28.24	648	40.00	383.33	638	17.00	109.82
634	11.00	48.04	650	47.90	471.04	640	21.00	147.71
636	14.00	72.95	<u>1959 Capacity</u>			642	26.00	194.57
638	16.80	103.68	644			644	30.00	250.47
640	21.00	141.36	626	1.00	0.67	646	35.00	315.34
642	25.73	187.97	628	5.00	6.15	648	40.00	390.21
			630	7.00	18.09	650	48.00	477.99

47. REMARKS AND REFERENCES

Average Land Use: Cultivated 80%; Pasture 18%; Roads 2%

Physiographic Area: Black Prairie

C/I Ratio: 1.091/; 0.242/

Estimated Trap Efficiency: 97%

Total annual Sediment Load, Adjusted for Trap Efficiency: 3.69 Ac.Ft./Sq.Mi. 1/  
2.51 Ac.Ft./Sq.Mi. 2/

48. AGENCY MAKING SURVEY      Soil Conservation Service

49. AGENCY SUPPLYING DATA      Temple, Texas

50. DATE      3-65



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
<u>Original Capacity-1952</u>								
624	3.00	2.00	640	23.00	183.40			
626	5.00	9.90	642	27.00	233.30			
628	6.00	20.88	644	32.00	292.17			
630	8.00	34.82	648	41.00	437.76			
632	11.00	53.72	650	48.00	526.58			
634	13.00	77.67						
636	16.00	106.59						
638	19.00	141.51						

47. REMARKS AND REFERENCES

48. AGENCY MAKING SURVEY

49. AGENCY SUPPLYING DATA    SCS

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

RESERVOIR SEDIMENT

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

DATA SUMMARY

Site No. 12, Honey Creek

NAME OF RESERVOIR

51-27b

DATA SHEET NO.

SCS 34 Rev. 6-66

DAM	1. OWNER <b>Roach &amp; Meyercord</b>			2. STREAM <b>Trib. of E. Fork-Trinity</b>		STATE <b>Texas</b>										
	4. SEC. <b>TWP.</b>		RANGE		5. NEAREST P.O. <b>McKinney</b>		6. COUNTY <b>Collin</b>									
	7. LAT. <b>33°18'15"</b>		LONG. <b>96°40'0"</b>		8. TOP OF DAM ELEVATION <b>655.0</b>		9. SPILLWAY CREST ELEV. <b>650.0</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>650.0 1/</b>		<b>48.00</b>		<b>384.62</b>		<b>553.33 3/</b>		<b>1-11-52</b>					
	b. MULTIPLE USE															
	c. POWER															
	d. WATER SUPPLY										16. DATE NORMAL OPER. BEGAN					
	e. IRRIGATION															
	f. CONSERVATION															
g. INACTIVE		<b>638.0 2/</b>		<b>19.00</b>		<b>168.71</b>		<b>168.71 3/</b>		<b>1-11-52</b>						
17. LENGTH OF RESERVOIR <b>0.76</b>				MILES				AV. WIDTH OF RESERVOIR <b>0.10</b>				MILES				
WATERSHED	18. TOTAL DRAINAGE AREA <b>1.28</b>				SQ. MI.				22. MEAN ANNUAL PRECIPITATION <b>34.80 (49)</b>				INCHES			
	19. NET SEDIMENT CONTRIBUTING AREA <b>1.26</b>				SQ. MI.				23. MEAN ANNUAL RUNOFF <b>6.40</b>				INCHES			
	20. LENGTH <b>1.75</b>		MILES		AV. WIDTH <b>0.69</b>		MILES		24. MEAN ANNUAL RUNOFF <b>436.88</b>				AC.-FT.			
	21. MAX. ELEV. <b>740.0</b>				MIN. ELEV. <b>617.0</b>				25. ANNUAL TEMP: MEAN <b>64°F</b> RANGE <b>45°F - 84°F</b>							
	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/ 1-11-52		-		-		Range -		35 R		48.00		553.33		1.27		
1/ 7-11-69		17.5		17.5		Contour (D)		.2' CI		47.17		475.52		1.09		
2/ 1-11-52		-		-						19.00		168.71		-		
2/ 7-11-69		17.5		17.5						18.26		102.61		-		
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			
	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/ 7-11-69		77.81		4.45		3.53		77.81		4.45		3.53			
	2/ 7-11-69		66.10		3.78		3.00		66.10		3.78		3.00			
	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/ 7-11-69		40.72		3130		3130		0.80 14.06		-		-			
	2/ 7-11-69		35.67		2330		2330		2.24 39.18		-		-			
4/ 7-11-69		69.32		800		800		- -		-		-				

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. ELEVATION-AREA-CAPACITY DATA															
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY							
630	6.61	4.41	640	21.83	142.64	650	47.17	475.52							
632	9.45	20.38	642	25.82	190.24										
634	12.54	42.30	644	30.38	246.38										
636	14.80	69.61	646	35.09	311.79										
638	18.26	102.61	648	40.81	387.62										
47. REMARKS AND REFERENCES															
<u>1/</u> Total reservoir below emergency spillway crest elev. (650.0') <u>2/</u> Sediment pool only. <u>3/</u> Original capacities revised due to addition of ranges during 1969 survey. <u>4/</u> Detention pool only.															
48. AGENCY MAKING SURVEY				Texas Sedimentation Survey Party				50. DATE				January 1970			
49. AGENCY SUPPLYING DATA				Soil Conservation Service											



RESERVOIR SEDIMENT  
DATA SUMMARY

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

Site 12, Honey Creek

SCS-34 Rev. 6-66

NAME OF RESERVOIR

51 - 27c

DATA SHEET NO.

DAM	1. OWNER		2. STREAM Trib. of East Fork		3. STATE Texas											
	4. SEC. TWP. RANGE		5. NEAREST P.O. McKinney Trinity		6. COUNTY Collin											
7. LATN 33° 18' 15" LONG 96° 40' 12"		8. TOP OF DAM ELEVATION 655.0		9. SPILLWAY CREST ELEV. 650.0												
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		650.0 1/		48.00		384.62		553.33		1-11-52					
	b. MULTIPLE USE															
	c. POWER															
	d. WATER SUPPLY										16. DATE NORMAL OPER. BEGAN					
	e. IRRIGATION															
	f. CONSERVATION															
g. INACTIVE		638.0 2/		19.00		168.71		168.71		1-11-52						
WATERSHED	17. LENGTH OF RESERVOIR 0.76		MILES		AV. WIDTH OF RESERVOIR 0.10		MILES									
	18. TOTAL DRAINAGE AREA 1.28		SQ. MI.		22. MEAN ANNUAL PRECIPITATION 34.80 (66)		INCHES									
	19. NET SEDIMENT CONTRIBUTING AREA 1.20		SQ. MI.		23. MEAN ANNUAL RUNOFF 6.42		INCHES									
	20. LENGTH 1.75		MILES		AV. WIDTH 0.73		MILES		24. MEAN ANNUAL RUNOFF 438.24		AC. FT.					
	21. MAX. ELEV. 740.0		MIN. ELEV. 617.0		25. ANNUAL TEMP: MEAN 65°F		RANGE 34°F - 96°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.	
	1-11-52		-		-		Range		35 R		48.00		553.33		1.26	
	7-11-69		17.5		17.5		Contour		2' CI		47.17		475.52		1.09	
	6-23-75		5.95		23.45		(D)		2' CI		47.09		457.24		1.04	
	1-11-52		-		-						19.00		168.71		--	
	7-11-69		17.5		17.5						18.26		102.61		--	
	6-23-75		5.95		23.45						18.18		86.50		--	
	26. DATE OF SURVEY		34. PERIOD ANNUAL PRECIPITATION		35. PERIOD WATER INFLOW, ACRE-Feet				36. WATER INFL. TO DATE, AC.-Feet.							
					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				
1/ 6-23-75		18.28		3.07		2.56		96.09		4.10		3.42				
2/ 6-23-75		16.11		2.71		2.26		82.21		3.51		2.92				
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/ 6-23-75		-		2218.87		3055		.74		17.37		-		-		
2/ 6-23-75		34		1270.57		2162		2.08		48.73		-		-		
3/ 6-23-75		82		948.30		893		-		-		-		-		



RESERVOIR SEDIMENT

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

DATA SUMMARY

Site 12, Honey Creek

CS-34 Rev. 6-66

NAME OF RESERVOIR

51 - 27d

DATA SHEET NO.

DAM	1. OWNER			2. STREAM Trib of Trinity			3. STATE Texas					
	4. SEC.		TWP.		RANGE		5. NEAREST P.O. McKinney		6. COUNTY Collin			
	7. LAT. 33° 18' 15" LONG. 96° 40' 12"			8. TOP OF DAM ELEVATION 655.0			9. SPILLWAY CREST ELEV. 650.0					
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/ 650.0		48.00		384.62		553.33		1-11-52	
	b. MULTIPLE USE											
	c. POWER											
	d. WATER SUPPLY											
	e. IRRIGATION										16. DATE NORMAL OPER. BEGAN	
	f. CONSERVATION											
	g. INACTIVE		2/ 638.0		19.00		168.71		168.71		1-11-52	
WATERSHED	17. LENGTH OF RESERVOIR				0.76 MILES		AV. WIDTH OF RESERVOIR				0.10 MILES	
	18. TOTAL DRAINAGE AREA				1.28 SQ. MI.		22. MEAN ANNUAL PRECIPITATION				38.80 (66) INCHES	
	19. NET SEDIMENT CONTRIBUTING AREA				1.20 SQ. MI.		23. MEAN ANNUAL RUNOFF				6.42 INCHES	
	20. LENGTH		1.75 MILES		AV. WIDTH		0.73 MILES		24. MEAN ANNUAL RUNOFF		438.24 AC.-FT.	
	21. MAX. ELEV.		740.0		MIN. ELEV.		617.0		25. ANNUAL TEMP: MEAN 65° F RANGE 34° - 96° 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.
	1-11-52	-	-	Range-		35 R		48.00		553.33		1.26
	7-11-69	17.50	17.50	Contour		2' CI		47.17		475.52		1.09
	6-23-75	5.95	23.45	(D)				47.09		457.24		1.04
	6-03-80	4.94	28.39					47.09		454.00		1.04
	26. DATE OF SURVEY	<del>PERIOD</del>	<del>ACCL.</del>	<del>TYPE OF SURVEY</del>		<del>NO. OF RANGES OR CONTOUR INT.</del>		<del>SURFACE AREA, ACRES</del>		<del>CAPACITY, ACRE-Feet</del>		<del>C/I. RATIO, AC.-FT. PER AC.-FT.</del>
	1-11-52	-	-					19.00		168.71		
	7-11-69	17.50	17.50					18.26		102.61		
	6-23-75	5.95	23.45					18.18		86.50		
	6-03-80	4.94	28.39					18.15		85.70		
	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/ 6-03-80	3.24	0.66	0.55	99.33	3.50	2.92						
2/ 6-03-80	0.80	0.16	0.13	83.01	2.92	2.44						
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/ 6-03-80	-	1869.92	2844.47	0.63	17.95							
2/ 6-03-80	37.0 (6)	1014.89	1966.30	1.73	49.20							
3/ 6-03-80	84.0	855.03	878.17									

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							
632.0	9.24	6.16	644.0	29.66	226.79										
634.0	11.75	27.10	646.0	34.89	291.27										
636.0	14.41	53.21	648.0	40.45	366.54										
638.0	18.15	85.70	650.0	47.09	454.00										
640.0	21.22	125.03													
642.0	25.50	171.68													
47. REMARKS AND REFERENCES															
<u>1/</u> Total reservoir below emergency spillway crest elevation (650.0'). <u>2/</u> Sediment pool only. <u>3/</u> Detention pool only.															
Geology: Austin Group, Upper Cretaceous Age. Land Resource Area: Texas Blackland Prairie. Estimated Trap Efficiency: 98%.															
48. AGENCY MAKING SURVEY			SCS, Temple, Texas												
49. AGENCY SUPPLYING DATA			SCS, Temple, Texas			50. DATE January 1980									