APPENDIX A

Individual rainfall (a) and soil erosion (b) observations for the 1996 and 1997 flue-cured tobacco growing season. Treatment designations refer to conventional tillage (T1) and conservation tillage (T2-T6). Row cultivation was applied at early, late and layby (T2), early and layby (T3), late and layby (T4), layby (T5) and none (T6).
Soil erosion (tons per acre)

12 June collection

Treatments:
- T1
- T2
- T3
- T4
- T5
- T6

Cumulative rainfall (inches)

Rainfall intensity (inches per hour)

$T_0 = 9 \text{ June 1996 @ 10:00}$
Time (hour)

Cumulative rainfall (inches)

Rainfall intensity (inches per hour)

Cumulative rainfall
Rainfall intensity

Soil erosion (tons per acre)

Treatments

T0 = 12 July 1996 @ 15:55

16 July collection
Soil erosion (tons per acre)

Treatments

T0 = 31 July 1996 @ 23:40

5 August collection

a) Cumulative rainfall

Rainfall intensity

Time (hour)

Cumulative rainfall (inches)

Rainfall intensity (inches per hour)

Soil erosion (tons per acre)

T1

T2

T3

T4

T5

T6

T0 = 31 July 1996 @ 23:40

5 August collection
a) Cumulative rainfall and rainfall intensity over time. T₀ = 3 September 1996 @ 11:15.

b) Bar chart showing 9 September collection for different treatments (T1-T6). T1 has the highest soil erosion, followed by T2 and T3, with T4, T5, and T6 having lower values.
$T_0 = 10$ September 1996 @ 16:55

16 September collection

Soil erosion (tons per acre)
a) Cumulative rainfall and rainfall intensity over time. The legend indicates the time of application: $T_0 = 25$ May 1997 @ 19:05.

b) Soil erosion for different treatments on 5 June collection. The treatments are indicated with distinct patterns and color codes.
b) 10 July collection
a) A four hour irrigation was applied at an approximate water output of 1/2 inch per hour. Recording raingauge inoperative during irrigation event.
Time (hour)
0123456
Cumulative rainfall (inches)
0123456
Rainfall intensity (inches per hour)
0123456
Cumulative rainfall
Rainfall intensity
Soil erosion (tons per acre)
0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0
T6 T5 T4 T3 T2 T1
Treatments
T 0 = 24 July 1997 @ 05:50
25 July collection
Time (hour)

Cumulative rainfall (inches)

Rainfall intensity (inches per hour)

Soil erosion (tons per acre)

Treatments

T6

T5

T4

T3

T2

T1

T0 = 4 August 1997 @ 10:55

6 August collection
Cumulative rainfall (inches)

Rainfall intensity (inches per hour)

Time (hour)

Cumulative rainfall

Rainfall intensity

Soil erosion (tons per acre)

Treatments

T6

T5

T4

T3

T2

T1

5 September collection

$T_0 = 18$ August 1997 @ 16:35
Soil erosion (tons per acre)

Treatments

Cumulative rainfall (inches)

Rainfall intensity (inches per hour)

\[ T_0 = 8 \text{ September 1997 @ 20:35} \]

23 September collection

Cumulative rainfall

Rainfall intensity

Time (hour)
Soil erosion (tons per acre)

T0 = 14 October 1997 @ 21:00

Treatments

a)

20 October collection

Cumulative rainfall
Rainfall intensity

Rainfall intensity (inches per hour)
Cumulative rainfall (inches)