

# ***Effects of Variety and Harvest Management on Burley Tobacco Quality***

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# ***INTRODUCTION***

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- **The Fair and Equitable Tobacco Reform Act of 2004 has resulted in numerous changes in burley tobacco production practices:**
  - **Fewer growers with larger acreages**
  - **Shift from traditional growing regions**
  - **Expansion of the growing season**
  - **Harvesting during adverse weather conditions**
  - **Majority of the crop comprised of only a few varieties**

# ***INTRODUCTION***

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- **In recent years, a decline in leaf quality has been observed in some markets**
- **While quality issues are likely related to changes in production practices and adverse weather conditions during curing, some growers and buyers have questioned the leaf quality of recently released varieties**

**Commercial Burley Test**  
**Relative Effects of Variety, Location, and Year on Quality**  
**Twenty Independent Trials**

Variety	Variety Mean	Location	Location Mean*	Year	Year Mean
KT 210LC	61	LEX	62	2006	68
TN 86LC	61	WC	62	2007	62
TN 97LC	61	HRES	59	2008	59
NC 2002LC	59	TES	59	2009	53
KT 206LC	59			2010	35
TN 90LC	58				
KT 204LC	58				
KY 14 X L8LC	58				
NC 7LC	57				
KT 209LC	57				
<b>Range</b>	<b>4</b>		<b>3</b>		<b>33</b>



# ***INTRODUCTION***

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- In recent years, a decline in leaf quality has been observed in some markets
- While quality issues are likely related to changes in production practices and adverse weather conditions during curing, some growers and buyers have questioned the leaf quality of recently released varieties
- **The current study was conducted to evaluate the relative impact of variety versus harvest management on burley tobacco quality**

## Effects of Variety and Harvest Management on Burley Quality

Six Varieties	Two Transplant/Harvest Regimes	Pick-up From Field
<b>TN 90LC</b> <b>KY 14 X L8LC</b> KT 204LC KT 206LC KT 210LC	Transplant Mid-May Harvest 21 - 24 Days After Topping (Mid-August)	Day of Cutting 3 Days after Cutting 6 Days after Cutting 10 Days After Cutting
KTH 2901LC	Transplant Late June Harvest 35 - 38 Days After Topping (Late Sept - Early Oct)	----- Hang Same Day  Hang All Plots 10 Days After Cutting

# Effects of Variety and Harvest Management on Burley Quality

Study conducted at Lexington, Ky and Greeneville and Springfield, TN

Split Split-Plot block design with three replications

		Day 0	Day 3	Day 6	Day 10
Plot size Four Rows	On Scaffold	15	15	15	0
Total of 120 Plants	Hung in Barn	15	15	15	30

## Variety Means Across Harvest Management Treatments Early Versus Late Season Effect

Entry	Grade Index		Yield (lbs/A)		Income (\$/A)	
	Early	Late	Early	Late	Early	Late
<b>TN 90LC</b>	<b>48</b>	<b>43</b>	<b>2905</b>	<b>2784</b>	<b>4418</b>	<b>4285</b>
<b>KY 14 X L8LC</b>	<b>49</b>	<b>45</b>	<b>3091</b>	<b>3149</b>	<b>4830</b>	<b>4951</b>
<b>KT 204LC</b>	<b>48</b>	<b>44</b>	<b>3164</b>	<b>3097</b>	<b>5005</b>	<b>4750</b>
<b>KT 206LC</b>	<b>49</b>	<b>45</b>	<b>3273</b>	<b>2920</b>	<b>5051</b>	<b>4611</b>
<b>KT 210LC</b>	<b>52</b>	<b>47</b>	<b>3154</b>	<b>2866</b>	<b>5109</b>	<b>4576</b>
<b>KTH 2901LC</b>	<b>48</b>	<b>43</b>	<b>3045</b>	<b>2989</b>	<b>4627</b>	<b>4628</b>
<b>Range</b>	<b>4</b>	<b>4</b>	<b>368</b>	<b>365</b>	<b>791</b>	<b>666</b>



**Variety Effects**  
**Means Across Harvest Management Treatments**  
**Data for All Treatments**

<b>Days in Field</b>	<b>Grade Index</b>	<b>Yield (lbs/A)</b>	<b>Income (\$/A)</b>
<b>TN 90LC</b>	<b>46</b>	<b>2844</b>	<b>4352</b>
<b>KY 14 X L8LC</b>	<b>47</b>	<b>3120</b>	<b>4891</b>
<b>KT 204LC</b>	<b>46</b>	<b>3130</b>	<b>4878</b>
<b>KT 206LC</b>	<b>47</b>	<b>3096</b>	<b>4831</b>
<b>KT 210LC</b>	<b>50</b>	<b>3010</b>	<b>4843</b>
<b>KTH 2901LC</b>	<b>46</b>	<b>3017</b>	<b>4627</b>
<b>Range</b>	<b>4</b>	<b>286</b>	<b>539</b>

**Variety Effects**  
**Means Across Harvest Management Treatments**  
**Data Only for Treatments Without Rainfall**

<b>Days in Field</b>	<b>Grade Index</b>	<b>Yield (lbs/A)</b>	<b>Income (\$/A)</b>
<b>TN 90LC</b>	<b>50</b>	<b>2771</b>	<b>4581</b>
<b>KY 14 X L8LC</b>	<b>52</b>	<b>3037</b>	<b>5069</b>
<b>KT 204LC</b>	<b>51</b>	<b>3074</b>	<b>5085</b>
<b>KT 206LC</b>	<b>52</b>	<b>2957</b>	<b>4986</b>
<b>KT 210LC</b>	<b>54</b>	<b>2886</b>	<b>4926</b>
<b>KTH 2901LC</b>	<b>50</b>	<b>2937</b>	<b>4842</b>
<b>Range</b>	<b>4</b>	<b>303</b>	<b>504</b>

# Harvest Management Effects

## Means Across Varieties

### All Trials

Days in Field	Grade Index	Yield (lbs/A)	Income (\$/A)
0	56	2986	5110
3	49	3007	4988
6	43	3027	4468
10	39	3126	4381

**Harvest Management Study**  
**Early Harvest - Lexington**  
**Cut 21 days after Topping**

Treatment	Cut	Pick-up	Hang	Rainfall	Sunscald
0	Aug. 16	Aug. 16	Aug. 19	0	No
3	Aug. 16	Aug. 19	Aug. 19	0.11 Aug 18	Yes
6	Aug. 16	Aug. 22	Aug. 22	0.11 Aug 18	Yes
9	Aug. 16	Aug. 25	Aug. 25	0.11 Aug 18	Yes

**Period Air Temperature: Max = 86, Min = 64, Avg = 75**

## Harvest Management Effects Means Across Varieties Early Harvest Trial - Lexington

Days in Field	Barn vs Scaffold	Grade Index	Yield (lbs/A)	Income (\$/A)
0 Day	Scaffold	75	2722	5322
0 Day	Barn	75	2734	5372
<b>0.11 inch rain on Day 2</b>				
3 Day	Scaffold	66	2920	5520
3 Day	Barn	66	2801	5304
6 Day	Scaffold	63	2800	5193
6 Day	Barn	70	2797	5423
9 Day	Barn	62	2952	5519

Period Ambient Temp: Max = 86 Min = 64 Avg = 75

All plots left in the field displayed sunscald



## Harvest Management Effects on Leaf Color Means Across Varieties Early Harvest Trial - Lexington

Days in Field	Barn vs Scaffold	Grade Index	No. Samples with Inferior Color					
			M	K	G	V	N	NOG
0 Day	Scaffold	75	1			2	1	
0 Day	Barn	75				1		
<b>0.11 inch rain on Day 2</b>								
3 Day	Scaffold	66	2	3	1	4		
3 Day	Barn	66		1	2	5		
6 Day	Scaffold	63	7	6			1	
6 Day	Barn	70				2	1	
9 Day	Barn	62	3	6	1		3	

Period Ambient Temp: Max = 86 Min = 64 Avg =75

All Plots left in the field displayed sunscald

## Harvest Management Effects on Leaf Quality Means Across Varieties Early Harvest Trial - Lexington

Days in Field	Barn vs Scaffold	Grade Index	Leaf Quality of Farm Grades*				
			Flyings	Cutters	Leaf	Tips	Avg
0 Day	Scaffold	75	4.2	3.3	2.3	4.4	3.6
0 Day	Barn	75	4.2	3.3	2.5	4.3	3.6
<b>0.11 inch rain on Day 2</b>							
3 Day	Scaffold	66	4.4	3.7	2.8	4.6	3.9
3 Day	Barn	66	4.4	3.4	2.8	4.6	3.8
6 Day	Scaffold	63	4.7	3.8	3.2	4.6	4.1
6 Day	Barn	70	4.4	3.8	2.7	4.4	3.8
9 Day	Barn	62	4.6	4.2	3.2	4.6	4.2

Period Ambient Temp: Max = 86 Min = 64 Avg = 75

All Plots left in the field displayed sunscald

\*Nondescript = 6 No-Grade = 8

**Harvest Management Study**  
**Early Harvest - Greeneville**  
**Cut 21 days after Topping**

Treatment	Cut	Pick-up	Hang	Rainfall	Sunscald
0	Aug. 12	Aug. 12	Aug. 15	0	No
3	Aug. 12	Aug. 15	Aug. 15	0.81 Aug 13 0.81 Aug 14	Yes
6	Aug. 12	Aug. 18	Aug. 18	0.81 Aug 13 0.81 Aug 14	Yes
10	Aug. 12	Aug. 22	Aug. 22	0.81 Aug 13 0.81 Aug 14 0.51 Aug 19	Yes

**Period Air Temperature: Max = 90, Min = 75, Avg = 83**

## Harvest Management Effects Means Across Varieties Early Harvest Trial - Greeneville

Days in Field	Barn vs Scaffold	Grade Index	Yield (lbs/A)	Income (\$/A)
0 Day	Scaffold	62	3804	7089
0 Day	Barn	50	3666	6221
<b>0.81 inch rain on Day 1, 0.82 inch rain on Day 2</b>				
3 Day	Scaffold	28	3681	5874
3 Day	Barn	33	3681	5187
6 Day	Scaffold	32	3990	5646
6 Day	Barn	31	3853	5434
<b>0.51 inch rain on Day 7</b>				
10 Day	Barn	30	3982	4674

Period Ambient Temp: Max = 90 Min = 75 Avg = 83  
All plots left in the field displayed sunscald

## Harvest Management Effects on Leaf Color Means Across Varieties

### Early Harvest Trial - Greeneville

Days in Field	Barn vs Scaffold	Grade Index	No. Samples with Inferior Color					
			M	K	G	V	N	NOG
0 Day	Scaffold	62		7		6		
0 Day	Barn	50		25		3		
0.81 inch rain on Day 1, 0.82 inch rain on Day 2								
3 Day	Scaffold	28		40	14		1	
3 Day	Barn	33		51			7	
6 Day	Scaffold	32		54			1	
6 Day	Barn	31		52	3		1	
0.51 inch rain on Day 7								
10 Day	Barn	30		22			27	

Period Ambient Temp: Max = 90 Min = 75 Avg = 83

All Plots left in the field displayed sunscald



# Harvest Management Effects on Leaf Quality

Means Across Varieties

## Early Harvest Trial - Greeneville

Days in Field	Barn vs Scaffold	Grade Index	Leaf Quality of Farm Grades*				
			Flyings	Cutters	Leaf	Tips	Avg
0 Day	Scaffold	62	4.5	4.3	3.4	4.2	4.1
0 Day	Barn	50	4.4	4.2	3.7	4.2	4.1
<b>0.81 inch rain on Day 1, 0.82 inch rain on Day 2</b>							
3 Day	Scaffold	28	5.2	4.7	4.3	4.7	4.7
3 Day	Barn	33	6.1	4.6	4.3	4.7	4.9
6 Day	Scaffold	32	5.1	4.6	4.3	4.7	4.7
6 Day	Barn	31	4.9	4.6	4.6	4.9	4.8
<b>0.51 inch rain on Day 7</b>							
10 Day	Barn	30	6.6	5.4	5.9	6.8	6.2

Period Ambient Temp: Max = 90 Min = 75 Avg = 83

All Plots left in the field displayed sunscald

\*Nondescript = 6 No-Grade = 8

**Harvest Management Study**  
**Early Harvest - Springfield, TN**  
**Cut 21 days after Topping**

Treatment	Cut	Pick-up	Hang	Rainfall	Sunscald
0	Aug. 16	Aug. 16	Aug. 19	0	No
3	Aug. 16	Aug. 19	Aug. 19	0	Yes
6	Aug. 16	Aug. 22	Aug. 22	1.2 Aug. 20	Yes
10	Aug. 16	Aug. 25	Aug. 25	1.2 Aug. 20	Yes

Period Air Temperature: Max = 95 , Min = 60, Avg = 79

## Harvest Management Effects Means Across Varieties Early Harvest Trial - Springfield

Days in Field	Barn vs Scaffold	Grade Index	Yield (lbs/A)	Income (\$/A)
0 Day	Scaffold	67	2612	4988
0 Day	Barn	71	2656	5179
3 Day	Scaffold	61	2642	4943
3 Day	Barn	57	2606	4676
<b>1.2 inces of rain on Day 4</b>				
6 Day	Scaffold	18	2631	1611
6 Day	Barn	23	2650	2126
10 Day	Barn	22	2706	2334

Period Ambient Temp: Max = 95 Min = 60 Avg = 79

All Plots left in the field displayed sunscald

## Harvest Management Effects on Leaf Color Means Across Varieties Early Harvest Trial - Springfield

Days in Field	Barn vs Scaffold	Grade Index	No. Samples with Inferior Color					
			M	K	G	V	N	NOG
0 Day	Scaffold	67	10 (F)	4	1			
0 Day	Barn	71	1 (F)	1				
3 Day	Scaffold	61	9	2	5			
3 Day	Barn	57	1	9	4	2		
<b>1.2 Inches of rain on day 4</b>								
6 Day	Scaffold	18	6	4	2		4	39
6 Day	Barn	23	16	7		1		37
10 Day	Barn	22	17	8	2		4	32

Period Ambient Temp: Max = 95 Min = 60 Avg = 79

All Plots left in the field displayed sunscald

# Harvest Management Effects on Leaf Quality

Means Across Varieties

Early Harvest Trial - Springfield

Days in Field	Barn vs Scaffold	Grade Index	Leaf Quality of Farm Grades*				
			Flyings	Cutters	Leaf	Tips	Avg
0 Day	Scaffold	67	4.4	4.0	3.3	3.9	3.9
0 Day	Barn	71	4.1	3.6	3.3	3.7	3.7
3 Day	Scaffold	61	4.3	4.1	3.6	4.1	4.0
3 Day	Barn	57	4.4	4.1	3.7	4.2	4.1
<b>1.2 Inches of rain on day 4</b>							
6 Day	Scaffold	18	4.8	5.8	7.7	7.8	6.5
6 Day	Barn	23	4.6	5.1	7.1	8.0	6.2
10 Day	Barn	22	5.0	5.2	7.0	7.8	6.3

Period Ambient Temp: Max = 95 Min = 60 Avg = 79

All Plots left in the field displayed sunscald

\*Nondescript = 6 No-Grade = 8



**Harvest Management Study**  
**Late Harvest - Lexington, KY**  
**Cut 35 days after Topping**

<b>Treatment</b>	<b>Cut</b>	<b>Pick-up</b>	<b>Hang</b>	<b>Rainfall</b>	<b>Sunscald</b>
0	Oct. 4	Oct. 4	Oct. 7	0	No
3	Oct. 4	Oct. 7	Oct. 7	0	No
6	Oct. 4	Oct. 10	Oct. 10	0	No
10	Oct. 4	Oct. 13	Oct. 13	0	No

**Period Air Temperature: Max = 74, Min = 51, Avg = 63**

## Harvest Management Effects Means Across Varieties Late Harvest Trial - Lexington

Days in Field	Barn vs Scaffold	Grade Index	Yield (lbs/A)	Income (\$/A)
0 Day	Scaffold	44	2639	4092
0 Day	Barn	50	2566	4149
3 Day	Scaffold	46	2616	4087
3 Day	Barn	47	2842	4627
6 Day	Scaffold	43	2560	3954
6 Day	Barn	49	2622	4282
10 Day	Barn	39	2914	4214

Period Ambient Temp: Max = 74 Min = 51 Avg = 63  
No sunscald, no rain

## Harvest Management Effects on Leaf Color Means Across Varieties Late Harvest Trial - Lexington

Days in Field	Barn vs Scaffold	Grade Index	No. Samples with Inferior Color					
			M	K	G	V	N	NOG
0 Day	Scaffold	44		34	1		11	
0 Day	Barn	50		23	1	2	15	
3 Day	Scaffold	46	2	27	1		13	
3 Day	Barn	47		33			6	
6 Day	Scaffold	43	1	39			9	
6 Day	Barn	49		30			9	
10 Day	Barn	39	4	38			18	

Period Ambient Temp: Max = 74 Min = 51 Avg = 63  
No sunscald, no rain

## Harvest Management Effects on Leaf Quality Means Across Varieties Late Harvest Trial - Lexington

Days in Field	Barn vs Scaffold	Grade Index	Leaf Quality of Farm Grades*				
			Flyings	Cutters	Leaf	Tips	Avg
0 Day	Scaffold	44	5.6	4.1	3.4	4.2	4.3
0 Day	Barn	50	5.7	4.2	3.2	4.1	4.3
3 Day	Scaffold	46	5.7	4.3	3.4	4.1	4.4
3 Day	Barn	47	5.3	4.1	3.2	4.5	4.3
6 Day	Scaffold	43	5.5	4.3	3.3	4.4	4.4
6 Day	Barn	49	5.3	4.3	3.3	4.1	4.3
10 Day	Barn	39	5.6	4.9	4.2	4.9	4.9

Period Ambient Temp: Max = 74 Min = 51 Avg = 63

No sunscald, no Rain

**Harvest Management Study**  
**Late Harvest - Greeneville, TN**  
**Cut 35 days after Topping**

<b>Treatment</b>	<b>Cut</b>	<b>Pick-up</b>	<b>Hang</b>	<b>Rainfall</b>	<b>Sunscald</b>
0	Sept. 27	Sept. 27	Sept. 30	0	No
3	Sept. 27	Sept. 30	Sept. 30	0	No
6	Sept. 27	Oct. 3	Oct. 3	0	No
10	Sept. 27	Oct. 7	Oct. 7	0	No

**Period Air Temperature: Max = 77, Min = 32, Avg = 57**

## Harvest Management Effects Means Across Varieties Late Harvest Trial - Greeneville

Days in Field	Barn vs Scaffold	Grade Index	Yield (lbs/A)	Income (\$/A)
0 Day	Scaffold	28	4211	5861
0 Day	Barn	29	4258	5833
3 Day	Scaffold	36	4237	6387
3 Day	Barn	36	4148	6101
6 Day	Barn	34	3920	5695
10 Day	Barn	33	4108	5903

Period Ambient Temp: Max = 77 Min = 32 Avg = 57

No sunscald, no rain



## Harvest Management Effects on Leaf Color Means Across Varieties Late Harvest Trial - Greeneville

Days in Field	Barn vs Scaffold	Grade Index	No. Samples with Inferior Color					
			M	K	G	V	N	NOG
0 Day	Scaffold	28		24	27			
0 Day	Barn	29		19	39			
3 Day	Scaffold	36		41	2	1		
3 Day	Barn	36		49	3			
6 Day	Scaffold	36		45	1			
6 Day	Barn	34		45				
10 Day	Barn	33		53				

Period Ambient Temp: Max = 77 Min = 32 Avg = 57

No sunscald, no rain

**Harvest Management Effects on Leaf Quality**  
**Means Across Varieties**  
**Late Harvest Trial - Greeneville**

Days in Field	Barn vs Scaffold	Grade Index	Leaf Quality of Farm Grades*				
			Flyings	Cutters	Leaf	Tips	Avg
0 Day	Scaffold	28	4.7	4.4	4.3	4.9	4.6
0 Day	Barn	29	4.3	4.2	4.0	4.3	4.2
3 Day	Scaffold	36	4.1	4.8	4.2	4.3	4.4
3 Day	Barn	36	4.3	4.4	4.1	4.1	4.2
6 Day	Scaffold	36	4.4	4.6	4.1	4.3	4.4
6 Day	Barn	34	4.6	4.9	4.3	4.6	4.6
10 Day	Barn	33	4.8	4.5	4.5	4.4	4.6

Period Ambient Temp: Max = 77 Min = 32 Avg = 57  
 No sunscald, no Rain

**Harvest Management Study**  
**Late Harvest - Springfield, TN**  
**Cut 35 days after Topping**

<b>Treatment</b>	<b>Cut</b>	<b>Pick-up</b>	<b>Hang</b>	<b>Rainfall</b>	<b>Sunscald</b>
0	Sept. 27	Sept. 27	Sept. 30	0	No
3	Sept. 27	Sept. 30	Sept. 30	0	No
6	Sept. 27	Oct. 3	Oct. 3	0	No
10	Sept. 27	Oct. 7	Oct. 7	0	No

**Period Air Temperature: Max = 83, Min = 38, Avg = 61**

**Harvest Management Effects  
Means Across Varieties  
Late Harvest Trial - Springfield**

<b>Days in Field</b>	<b>Barn vs Scaffold</b>	<b>Grade Index</b>	<b>Yield (lbs/A)</b>	<b>Income (\$/A)</b>
<b>0 Day</b>	<b>Scaffold</b>	<b>58</b>	<b>1944</b>	<b>3619</b>
<b>0 Day</b>	<b>Barn</b>	<b>57</b>	<b>2017</b>	<b>3595</b>
<b>3 Day</b>	<b>Scaffold</b>	<b>56</b>	<b>1923</b>	<b>3470</b>
<b>3 Day</b>	<b>Barn</b>	<b>58</b>	<b>1989</b>	<b>3674</b>
<b>6 Day</b>	<b>Scaffold</b>	<b>56</b>	<b>2098</b>	<b>3812</b>
<b>6 Day</b>	<b>Barn</b>	<b>60</b>	<b>2126</b>	<b>4011</b>
<b>10 Day</b>	<b>Barn</b>	<b>50</b>	<b>2091</b>	<b>3643</b>

**Period Ambient Temp: Max = 83 Min = 38 Avg = 61**  
**No sunscald, no rain**

**Harvest Management Effects on Leaf Color**  
**Means Across Varieties**  
**Late Harvest Trial - Springfield**

Days in Field	Barn vs Scaffold	Grade Index	No. Samples with Inferior Color					
			M	K	G	V	N	NOG
0 Day	Scaffold	58		5			7	
0 Day	Barn	57		7			9	
3 Day	Scaffold	56		4			9	
3 Day	Barn	58		4			9	
6 Day	Scaffold	56		7			8	
6 Day	Barn	60		1			4	
10 Day	Barn	50		15			5	

Period Ambient Temp: Max = 83 Min = 38 Avg = 61  
 No sunscald, no rain

## Harvest Management Effects on Leaf Quality Means Across Varieties Late Harvest Trial - Springfield

Days in Field	Barn vs Scaffold	Grade Index	Leaf Quality of Farm Grades*				
			Flyings	Cutters	Leaf	Tips	Avg
0 Day	Scaffold	58	5.3	4.7	4.1	4.2	4.6
0 Day	Barn	57	5.5	4.6	4.2	4.2	4.6
3 Day	Scaffold	56	5.5	4.9	4.2	4.3	4.7
3 Day	Barn	59	5.5	4.8	4.2	4.3	4.7
6 Day	Scaffold	56	5.4	4.8	4.4	4.3	4.7
6 Day	Barn	60	5.2	4.9	4.2	4.2	4.6
10 Day	Barn	50	5.4	4.8	4.3	4.4	4.7

Period Ambient Temp: Max = 83 Min = 38 Avg = 61  
No sunscald, no Rain



## Early Versus Late Season Effect Harvest Management Means Across Varieties

**All Data**

Days in Field	Grade Index		Yield (lbs/A)		Income (\$/A)	
	Early	Late	Early	Late	Early	Late
0 Day	67	44	3032	2939	5695	4525
3 Day	52	47	3055	2959	5251	4724
6 Day	39	46	3120	2934	4239	4698
10 Day	38	41	3214	3038	4176	4587
<b>Mean</b>	<b>49</b>	<b>45</b>	<b>3105</b>	<b>2968</b>	<b>4840</b>	<b>4634</b>

**Significant Rainfall**

**Early Versus Late Season Effect**  
**Harvest Management Means Across Varieties**  
**Data without Significant Rainfall**

Days in Field	Grade Index		Yield (lbs/A)		Income (\$/A)	
	Early	Late	Early	Late	Early	Late
0 Day	67	44	3032	2939	5695	4525
3 Day	62	47	2742	2959	5111	4724
6 Day	66	46	2799	2934	5308	4698
10 Day	62	41	2952	3038	5519	4587
<b>Mean</b>	<b>64</b>	<b>45</b>	<b>2881</b>	<b>2968</b>	<b>5408</b>	<b>4634</b>

## ***Summary***

**Varieties had minimal effect on cured leaf quality**

**Rainfall occurring on tobacco left in the field drastically reduced quality**

**In the absence of rainfall, there was a relatively small negative impact from leaving tobacco in the field for up to six days; quality declined after ten days in field**

**Late harvested tobacco was inferior to early harvested tobacco when rainfall was not a factor**

**What is the impact of harvest management on TSNA?**

# ***ACKNOWLEDGEMENTS***

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