

**Seed test at S&W Greenhouses in Carrollton, Kentucky**  
 Bob Pearce

Seed lots of TN 90 and 14 x L8 were obtained from each of the four tobacco seed companies active in Kentucky. This test included one lot each of Rickard 14 x L8, NC 5, and NCBH 129 pelleted with the new ProfiCote™ coating. Media tested were Carolina Choice, Carolina Silver, Scotts Ag Mix, Speedling Peat Lite, and Sunshine LT5. Float trays (242 cell) were filled with Bouldin and Lawson Maxi-flat Filler. Seed from each seed lot were sown with a Hamilton drum seeder into six trays (replications) of each brand of media. Three trays of each treatment combination were floated in random order in a float bed without overhead watering. The other three trays of each treatment were handled in the same way, but were misted for 5 minutes 4 times per day. Germination and spiral root counts were made 19 days after seeding. Statistical analysis indicated that there was not a significant interaction between seedlot and media brand, so results of seedlot will be presented averaged across media brand, and media brand will be averaged across seedlots. If you have questions concerning this data please contact Bob Pearce at [rpearce@uky.edu](mailto:rpearce@uky.edu)

Percent germination of tobacco seeds counted 19 days after seeding. By seed source.

Seed Source/Variety	Not Misted	Misted	Source Avg.
Clays TN 90	<b>91.9</b>	<b>92.3</b>	92.1
Clays 14 x L8	<b>93.6</b>	<b>93.7</b>	93.6
Newton TN 90	<b>95.3</b>	<b>95.9</b>	95.6
Newton 14 x L8	<b>92.9</b>	<b>94.6</b>	93.8
Rickard TN 90	<b>89.5</b>	<b>94.3</b>	91.9
Rickard 14 x L8	<b>90.7</b>	<b>90.3</b>	90.5
Rickard 14 x L8 ProfiCote™	<b>92.5</b>	<b>92.6</b>	92.6
Rickard NC 5 ProfiCote™	<b>94.5</b>	<b>96.4</b>	95.5
Rickard NCBH 129 ProfiCote™	<b>95.2</b>	<b>96.5</b>	95.8
Workman TN 90	<b>93.1</b>	<b>94.2</b>	93.6
Workman 14 x L8	<b>89.4</b>	<b>89.8</b>	89.6
Misting Avg.	92.6	93.8	

Percent of germinated seedlings exhibiting symptoms of spiral root at 19 days after seeding. By seed source.

Seed Source/Variety	Not Misted	Misted	Source Avg.
Clays TN 90	<b>1.4</b>	<b>2.7</b>	2.0
Clays 14 x L8	<b>2.8</b>	<b>4.5</b>	3.7
Newton TN 90	<b>0.5</b>	<b>2.7</b>	1.6
Newton 14 x L8	<b>2.0</b>	<b>6.2</b>	4.1
Rickard TN 90	<b>7.4</b>	<b>4.3</b>	5.8
Rickard 14 x L8	<b>7.7</b>	<b>8.0</b>	7.8
Rickard 14 x L8 ProfiCote™	<b>4.5</b>	<b>4.8</b>	4.6
Rickard NC 5 ProfiCote™	<b>4.9</b>	<b>4.0</b>	4.5
Rickard NCBH 129 ProfiCote™	<b>1.5</b>	<b>3.8</b>	2.7
Workman TN 90	<b>1.5</b>	<b>2.5</b>	2.0
Workman 14 x L8	<b>3.2</b>	<b>4.4</b>	3.8
Misting Avg.	4.7	4.8	

Percent germination of tobacco seeds counted 19 days after seeding. By media brand.

Media	Not Misted	Misted	Media Avg.
Carolina Choice	<b>92.2</b>	<b>93.7</b>	92.9
Carolina Silver	<b>92.6</b>	<b>93.5</b>	93.0
Scotts Ag mix	<b>93.7</b>	<b>94.6</b>	94.1
Speedling Peat Lite	<b>91.4</b>	<b>93.2</b>	92.3
Sunshine LT5	<b>92.9</b>	<b>94.2</b>	93.6

Percent of germinated seedlings exhibiting symptoms of spiral root at 19 days after seeding. By media brand.

Media	Not Misted	Misted	Media Avg.
Carolina Choice	<b>4.9</b>	<b>4.9</b>	4.9
Carolina Silver	<b>3.7</b>	<b>6.1</b>	4.9
Scotts Ag mix	<b>6.9</b>	<b>5.3</b>	6.1
Speedling Peat Lite	<b>6.2</b>	<b>4.1</b>	5.2
Sunshine LT5	<b>1.7</b>	<b>3.9</b>	2.8

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