SECTION 3 - WHEAT PLANTED NO-TILL INTO CORN STUBBLE

Wheat was planted no-till into corn stubble at the Eastern Virginia AREC near Warsaw, Virginia. Cooperator Charles Sanford harvested the corn and shredded the stalks. Two quarts per acre Roundup Weathermax® were applied on September 13, 2004. Plots were planted using a Great Plains No-Till plot drill at 28 seeds per row foot in 7.5 inch rows on October 18, 2004 and preplant fertilizer of 30-80-80-5 was applied October 22, 2004. Nitrogen was applied at 40 and 80 pounds per acre as 24-0-0-3 on February 7, 2005 and April 8, 2005, respectively. Harmony Extra was applied at 0.6 ounces per acre on April 19, 2005. Plots were harvested on June 24, 2005.

A good stand was obtained by late fall. Due to a period of very cold nights in mid-winter, some winter injury was experienced and tillering was slightly less than normal going into early spring. The mean yield for the test was 90 bushels per acre reflecting the favorable growing conditions in late spring. Top yielding varieties of wheat when planted into corn residue without tillage were SS MPV 57, 3706, SS 560, and SS 520. All of these varieties yielded significantly more than the mean for the test. Most also did well in the conventional tillage tests. Long term, it will be beneficial in no tillage and conventional tillage when Fusarium resistance is increased in more varieties. Tribute, McCormick, Roane, and Neuse have a degree of resistance to scab spread in the head.

Table 27. Summary of performance of entries in the Virginia Tech No-tillage Wheat Test at Warsaw, 2005 harvest.

<table>
<thead>
<tr>
<th>Line</th>
<th>Yield (Bu/a)</th>
<th>Test Weight (Lb/bu)</th>
<th>Date Headed (Mar31+)</th>
<th>Height (In)</th>
<th>Lodging (0.2-10)</th>
<th>Powdery Mildew</th>
<th>Leaf Rust</th>
<th>Stripe Rust</th>
<th>Stripe Rust Reaction Type</th>
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Table 27, continued. Summary of performance of entries in the Virginia Tech No-till Wheat Test at Warsaw, 2005 harvest.

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Table 27, continued. Summary of performance of entries in the Virginia Tech No-tillage Wheat Test at Warsaw, 2005 harvest.

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Average

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Released cultivars are shown in bold print.
Varieties are ordered by descending yield averages. A plus or minus sign indicates a performance significantly above or below the test average.
The number in parentheses below column headings indicates the number of locations on which data are based.
Belgian Lodging Scale = Area X Intensity X 0.2. Area = 1-10, where 1 is wheat unaffected and 10 is entire plot affected and Intensity = 1-5, where 1 is wheat standing upright and 5 is wheat totally flat. The 0-9 ratings indicate a genotype's response to disease, where 0 = highly resistant and 9 = highly susceptible.
Stripe rust reaction type indicators are as follows: R= resistant, MR=moderately resistant, I=intermediate, S=susceptible, and MS=moderately susceptible.

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<th>Line Type</th>
<th>Yield (Bu/a)</th>
<th>Test Weight (Lb/bu)</th>
<th>Date Headed (Mar31+)</th>
<th>Height (In)</th>
<th>Lodging (0-2-10)</th>
<th>Powdery Mildew</th>
<th>Leaf Rust</th>
<th>Barley Yellow Dwarf Virus</th>
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<td>PIONEER 26R24(D)</td>
<td>82 + 58.1</td>
<td>33 - 34 + 0.5</td>
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<td>FEATHERSTONE 176</td>
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<td>32 - 33 + 0.4</td>
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<td>SS 520(R)</td>
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<td>31 - 34 + 1.0</td>
<td>1 + 0</td>
<td>2 + 8</td>
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<td>VAN98W-342</td>
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<td>32 - 29 - 0.2</td>
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<td>MV5-46</td>
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<td>VA01W-205</td>
<td>79 + 58.6</td>
<td>34 - 30 - 0.3</td>
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<td>PIONEER 26R58(D)</td>
<td>78 + 57.5</td>
<td>33 - 32</td>
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<td>SS 550(B)</td>
<td>78 + 57.9</td>
<td>34 - 31 - 1.1 + 0</td>
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<td>TRIBUTE</td>
<td>77 + 59.6</td>
<td>34 - 31 - 0.2</td>
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<td>McCORMICK</td>
<td>77 + 59.7</td>
<td>34 - 31 - 0.2</td>
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<td>USG 3209(RT)</td>
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<td>NEUSE(R)</td>
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<td>MASSEY</td>
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Average 76 58.5 34 32 0.4 0 2 1 4
C.V. 6 1
LSD (0.05) 4 0.7 1 1 0.5 1 1 1 2

Released cultivars are shown in bold print. Varieties are ordered by descending yield averages. A plus or minus sign indicates a performance significantly above or below the average. The number in parentheses below column headings indicates the number of years on which data are based.

Belgian Lodging Scale = Area X Intensity X 0.2. Area = 1-10, where 1 is wheat unaffected and 10 is entire plot affected and Intensity = 1-5, where 1 is wheat standing upright and 5 is wheat totally flat. The 0-9 ratings indicate a genotype's response to disease, where 0 = highly resistant and 9 = highly susceptible.

Stripe rust reaction type indicators are as follows: R=resistant, MR=moderately resistant, I=intermediate, S=susceptible, and MS=moderately susceptible.