2014 Alabama On-Farm Corn Hybrid Program
Dryland Glyphosate-Tolerant Test
Test Location: Washington County
Farmer Cooperator: Rod Richardson
Regional Extension Agent: Kim Wilkins
Alabama Cooperative Extension System

Planted: March 26, 2014
Tillage: No-Till
Previous Crop: Cotton
Fertilizer Applied: 150-60-120 pounds per acre of N-P_{2}O_{5}-K_{2}O, respectively

Harvested: August 22, 2014
Plant Population: 26,000/acre
Soil Types: Benndale, McLaurin and Malbis fine sandy loam

Corn hybrids were provided by participating seed companies. Companies had the opportunity to enter their top two choices for the area and production type. Seed provided was already treated with each company’s respective seed treatment(s). The hybrids were planted in two 4-row strips the length of the field in 36-inch rows. The harvested strips averaged 1,484 feet in length. No significant lodging was observed. Producers are encouraged to consider several sources of information when making hybrid selections.

Table 1. Washington County, AL dryland on-farm corn hybrid performance test.

<table>
<thead>
<tr>
<th>Hybrid (Advertised Relative Maturity)</th>
<th>Technology Traits</th>
<th>Seed Treatments</th>
<th>Harvest Moisture</th>
<th>Yield</th>
</tr>
</thead>
<tbody>
<tr>
<td>Croplan Genetics 6640VT3P (113 days)</td>
<td>GENVT3P</td>
<td>A/Zn</td>
<td>14.5</td>
<td>160.4</td>
</tr>
<tr>
<td>Pioneer P1319HR (113 days)</td>
<td>HX1, LL, RR2</td>
<td>PPST/P1250/V</td>
<td>15.1</td>
<td>155.9</td>
</tr>
<tr>
<td>DeKalb DKC64-69 (114 days)</td>
<td>GENVT3P</td>
<td>A500/PV</td>
<td>15.2</td>
<td>157.4</td>
</tr>
<tr>
<td>Pioneer P1637VYHR (116 days)</td>
<td>Optimum Leptra</td>
<td>PPST/P1250/V</td>
<td>14.1</td>
<td>159.5</td>
</tr>
<tr>
<td>DeKalb DKC67-58 (117 days)</td>
<td>GENVT2P</td>
<td>A500/PV</td>
<td>14.6</td>
<td>152.5</td>
</tr>
</tbody>
</table>

1 Hybrids are listed in alphabetical order according to advertised relative maturity.
2 The parentheses represent the target pest species and/or herbicide tolerance of the trait(s). Trait Key: CB = corn borers; CW = black cutworm; CEW = corn earworm; CRW = corn rootworm; FAW = fall armyworm; LCB = lesser cornstalk borer; GT = glyphosate tolerance; LL = Liberty Link; RR2 = Roundup Ready2 Corn; Agrisure Viptera 3110 (CB, CEW, FAW, GT, LL); GENVT2P = Genuity VT Double PRO (CB, CEW, FAW, LCB, RR2); GENVT3P = Genuity VT Triple PRO (CB, CEW, CRW, FAW, LCB, RR2); HX1 = Herculex I (CB, FAW, LL); Optimum Leptra = combines HX1, YGCB, Agrisure Viptera 3110, RR2 and LL; YGCB = YieldGard Corn Borer (CB). More information on Bt proteins and various corn traits can be found in the ACES Corn IPM Guide (http://www.aces.edu/pubs/docs/I/IPM-0428/IPM-0428.pdf).
3 Seed treatment key: A/Zn = Acceleron has the insecticide clothianidin (Poncho 500 rate) and the fungicides ipaconazole, metalaxyl, and trifloxystrobin + zine; A500/PV = Acceleron with Poncho 500 (clothianidin) and the fungicides ipaconazole, metalaxyl, and trifloxystrobin + VOTIVO (Bacillus firmus 1-1582, a biological control agent of nematodes); PPST/P1250/V = Pioneer Premium Seed Treatment has the fungicides fludioxonil, mefenoxam, thiamendazole, and azoxystrobin plus a biological seed treatment + Poncho 1250 (clothianidin) + VOTIVO (Bacillus firmus 1-1582). Please check the ACES Corn IPM Guide for more information on corn seed treatments.
4 Yield adjusted to 15.5% moisture and an assumed test weight of 56 lbs bu⁻¹.

Appreciation is expressed to Rod Richardson, the Alabama Wheat and Feed Grain Commission, and the participating seed companies for supporting this test.