The first PhytoGen® brand variety with the Enlist® cotton trait is now available to producers. Built on proven PhytoGen genetics, PhytoGen brand PHY 490 W3FE provides tolerance to Enlist Duo® herbicide – a proprietary blend of a new 2,4-D choline and glyphosate – as well as full tolerance to glufosinate.

“Cotton growers have been following and understand the importance of the new Enlist cotton technology,” says Hank King, U.S. marketing leader for PhytoGen. “As part of the Enlist weed control system, the Enlist cotton trait represents the most innovative advancement in weed control technology for the cotton industry. Growers throughout the Cotton Belt are excited to plant PhytoGen brand varieties with the Enlist trait on their cotton acres.”

Stacked with Genuity® Roundup Ready® Flex and WideStrike® 3 Insect Protection, PHY 490 W3FE will allow cotton growers to consider additional weed control options. In addition to proven yield potential without crop response concerns, PHY 490 W3FE provides native resistance to bacterial blight. Virginia-based cotton grower Mike Griffin participated in the 2015 Enlist® cotton grower research plots. Griffin understands the importance of continuing to develop new technology and is ready to use the Enlist system on more acres.

“We cannot stop innovating to find a way to be better and to do more with agriculture,” Griffin says. “The Enlist system specifically has been brought forward to help control weed species that have been unmanageable. We look forward to using this technology to help us with those resistant and hard-to-control weeds.”

With tolerance to three distinct modes of action (a new 2,4-D choline, glyphosate and glufosinate), the Enlist trait gives growers more flexibility in their weed control programs. Using multiple modes of action delivers proven results, controlling resistant weeds in the field while helping growers prevent resistance for seasons to come.

“The industry-leading yield advantage of PhytoGen cottonseed is well-documented,” King says. “We have successfully combined the Enlist cotton trait with the best germplasm in the industry in a multistacked variety. We’re excited about future plans that call for expanding the PhytoGen portfolio with more Enlist cotton varieties in 2017.”

Enlist Duo herbicide is not yet registered for use with Enlist® cotton. Dow AgroSciences anticipates registration in the near future.

We want to hear from you

Our experienced staff is always available to visit your farm to discuss varieties and assist with seed selection.

Hank King
U.S. Marketing Leader

Making cotton profitable again

Exciting times are ahead as growers consider options to maximize cotton yields and fiber quality. PhytoGen has long produced the best yields with industry-leading technology and germplasm. We are excited about the PhytoGen® brand varieties that continue to demonstrate increased yield, improvements in fiber quality and higher return on investment for growers.

But don’t just take our word for it. Consider looking at multiyear trends in performance data from reputable, third-party sources such as Seed Matrix or university Official Variety Trials (OVT) in your geography.

In addition to yield data and weed control options, we suggest you also review trends in USDA loan values and overall return of specific cottonseed varieties. Your local PhytoGen sales representative or cotton development specialist is always available to discuss varieties and weed control programs that can help make growing cotton profitable in 2016. You shouldn’t have to settle for anything less from your cottonseed company.

For more information about PhytoGen® cottonseed or any other Dow AgroSciences products, call 800-258-3033. Or email us at info@dow.com or visit our website at PhytoGen.com.

This edition of FieldNotes has been sent to you on behalf of your PhytoGen sales representative.

With tolerance to three distinct modes of action – a new 2,4-D choline, glyphosate and glufosinate – PhytoGen® brand PHY 490 W3FE with the Enlist® cotton trait goes growers more flexibility in their weed control programs.
Maximum profits begin with variety selection
PhytoGen® brand varieties win several Midsouth university trials in 2015

As growers make final preparations for the 2016 season, PhytoGen Cotton Development Specialists Dr. Brooks Blanche and Dr. Chris Main say Midsouth growers can maximize profitability by taking a prescription approach to selecting varieties. Growers should consider the unique environments of each field and plant the varieties that provide the best yield and fiber quality in that situation. For high-production fields such as silt loam soils with good irrigation, PhytoGen® brand PHY 333 WRF and PHY 312 WRF are complementary early season varieties that push inputs for maximum yield and fiber quality.

“The sweet spot for these varieties is the highly productive, heavily managed, irrigated acre with lighter-texture soils where growers are pushing for top-end yields,” says Blanche, whose territory includes Mississippi, Louisiana and southeastern Arkansas.

“PhytoGen® brand PHY 333 WRF and PHY 312 WRF are tied for first place in the 2015 Tennessee Official Variety Trials with yields of 1,519 pounds per acre,” said Blanche. “PHY 333 WRF is a very adaptable variety that also fits on the dryland acre where it can handle a little more stress,” he said. “Its ability to provide excellent yields and fiber quality in diverse situations explains why it was No.1 in the University of Tennessee 2015 Official Variety Trials.”

For growers looking for a medium-maturity variety, Blanche and Main both tout the yield and quality of PhytoGen® brand PHY 444 WRF. In the northern Mid-Atlantic region, Main says PHY 444 WRF should be planted early – before May 5 – on thinner soils that dry out first. Blanche says PHY 444 WRF fits most acres in his territory but really stands out on dryland or marginal soils. That’s why it ranked No.1 in the 2015 Mississippi State University On-farm Variety Trials, yielding 1,345 pounds per acre with a mic of 4.1 and nearly a 41 staple.

“PHY 444 WRF has that elusive combination that all cotton growers are looking for – excellent yields and excellent quality,” Blanche says. “I have never seen staple like this in a high-yielding Delta variety. With its premium staple and mic, this is the cotton in high demand from the spinning industry.”

In addition to these top-performing varieties, Blanche and Main point out several varieties that help growers deal with specific pests. Blanche says PhytoGen brand PHY 496 W3RF incorporates WideStrike® 3 Insect Protection, a three-gene Bt technology that provides noticeable improvement of cotton bollworm control. Main highlights PhytoGen brand PHY 339 WRF as a variety with resistance to bacterial blight and PhytoGen brand PHY 487 WRF as a good choice for fields with known high populations of root-knot nematodes.

Yield and Fiber Quality Data Averaged Across 17 locations
PhytoGen® brand PHY 444 WRF led the 2015 Mississippi State University On-farm Variety Trial program in both yield and quality.

PHY 444 WRF out yielded the next best competitive variety by 58 pounds per acre with micronaire and staple in the premium range.

For more information on varieties for your area, go to PhytoGen.com or contact your local PhytoGen cotton development specialist or sales representative.

### 2015 Mississippi State University On-farm Variety Trial – Yield and Fiber Quality Data Averaged Across 17 locations

**PhytoGen® brand PHY 444 WRF led the 2015 Mississippi State University On-farm Variety Trial program in both yield and quality.**

<table>
<thead>
<tr>
<th>Variety</th>
<th>Lint Yield (lb./A)</th>
<th>Mic</th>
<th>Staple (inches)</th>
<th>Strength (g/tex)</th>
<th>Unif (%)</th>
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</thead>
<tbody>
<tr>
<td>PHY 444 WRF</td>
<td>1345*</td>
<td>4.1</td>
<td>1.28</td>
<td>33.8</td>
<td>85.7</td>
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<tr>
<td>PHY 312 WRF</td>
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<td>1.21</td>
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<td>DP 1512 B2XF</td>
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<td>DG 2570 B2RF</td>
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<td>4.6</td>
<td>1.21</td>
<td>31.4</td>
<td>83.8</td>
</tr>
</tbody>
</table>

*Yield not statistically different than the top yielding variety.

Source: 2015 Extension Trial Data provided by Dr. Darrin Dodds et al., Mississippi State University


**PhytoGen® brand PHY 333 WRF and PHY 499 WRF tied for first place in the 2015 Tennessee Official Variety Trials with yields of 1,519 pounds per acre and excellent fiber quality.**

<table>
<thead>
<tr>
<th>Yield Rank</th>
<th>Variety</th>
<th>Lint Yield (lb./A)</th>
<th>Mic</th>
<th>Staple (inches)</th>
<th>Strength (g/tex)</th>
<th>Unif (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>PHY 333 WRF</td>
<td>1519</td>
<td>4.2</td>
<td>1.21</td>
<td>31.6</td>
<td>83.9</td>
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<tr>
<td>2</td>
<td>PHY 499 WRF</td>
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<td>1.19</td>
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<td>3</td>
<td>ST 4979 GLE2</td>
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<td>1475</td>
<td>4.5</td>
<td>1.18</td>
<td>31.5</td>
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</tbody>
</table>

Cotton Grower readers choose Kotton Kidz grand-prize winner

**The Weinheimer family wins big with little boy who loves farm equipment**

The Weinheimer family of Amarillo, Texas, is the grand-prize winner of the 2015 Kotton Kidz Photo Contest, sponsored by PhytoGen, for Cotton Grower magazine. The family was recently awarded a custom Radio Flyer wagon and $500 in cash. A $1,000 donation was recently awarded a custom Radio Flyer wagon and $500 in cash. A $1,000 donation was recently awarded a custom Radio Flyer wagon and $500 in cash. A $1,000 donation was recently awarded a custom Radio Flyer wagon and $500 in cash. A $1,000 donation was recently awarded a custom Radio Flyer wagon and $500 in cash. A $1,000 donation was recently awarded a custom Radio Flyer wagon and $500 in cash.

The photo contest asks readers of Cotton Grower to share photos of “the cutest kids in cotton.” This year’s grand-prize photo features Carson, now 2 years old, happily posing in a cotton field.

“Any time he can be around farm equipment, he’s excited,” says his dad, Paul Weinheimer. “He loves farm equipment.”

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