PhytoGen COTTONSEED

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Dow AgroSciences

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We want to hear from you

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

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Out-best your best with PhytoGen

Hank King
U.S. Leader – PhytoGen® cottonseed

PhytoGen only advances varieties that have shown improved performance year after year, meaning producers can count on excellent performance from PhytoGen, harvest after harvest. Producers also can count on PhytoGen to bring them the latest technology, such as the Enlist™ weed control system for exceptional weed control and WideStrike® 3 *Insect Protection* for improved bollworm control.

In 2017, we’ve introduced more varieties with additional yield protection from native traits. This includes tolerance to verticillium wilt and resistance to bacterial blight and root-knot nematodes. We’re also introducing a full range of PhytoGen® brand varieties with the Enlist cotton trait. Only PhytoGen cottonseed with the Enlist trait offers tolerance to new 2,4-D choline, glyphosate and glufosinate to manage tough-to-control and resistant weeds.

Your local PhytoGen field support team is always available to help you out-best your best in 2017.

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.

YouTube

FieldNotes

A COTTON PUBLICATION FOR FARMERS IN MID-ATLANTIC VOLUME 11, ISSUE 2

Mid-Atlantic states register Enlist Duo® herbicide for use on PhytoGen® cottonseed with the Enlist™ trait

Cotton growers in the Mid-Atlantic now have full access to the Enlist™ weed control system, giving them more flexibility and better weed control. The state registrations of Enlist Duo® herbicide for use on Enlist™ cotton in North Carolina, South Carolina, Virginia and West Virginia follow federal registration received in January 2017.

PhytoGen® brand varieties with the Enlist cotton trait enable growers to use an additional mode of action postemergence. The Enlist weed control system is now fully enabled for cotton producers in the 2017 season, including postemergence applications of Enlist Duo herbicide – a combination of glyphosate and new 2,4-D choline – as well as glufosinate.

Tolerance to these three modes of action offers farmers more flexibility and better performance in their weed control programs. PhytoGen brand varieties with the Enlist trait combine the latest weed control technology with industry-leading early season vigor, yield and fiber quality to benefit growers.

In addition to allowing the use of Enlist Duo on PhytoGen cottonseed with the Enlist trait, the EPA action expands the use of Enlist Duo on Enlist™ corn and Enlist soybeans for a total of 34 states. Once all necessary state registrations are received in the coming weeks, growers will have access to this groundbreaking technology on cotton, soybeans and corn that contain the Enlist trait.

New PhytoGen brand varieties with the Enlist cotton trait are now available. This technology is stacked with Genuity® Roundup Ready® Flex and the industry-leading, 3-gene WideStrike® 3 *Insect Protection*. These new varieties can be identified by the W3FE designation. The trait combination provides season-long control of several above-ground insects with improved bollworm control. The new varieties also feature bacterial blight resistance. (See page 3 for more information.)

Cotton growers in 2017 will be able to take full advantage of the Enlist™ weed control system, including postemergence applications of Enlist Duo® herbicide to control their toughest weeds. State registrations for Enlist Duo are pending in some states.

Evaluate multiple data points for premiums and profit opportunity

Growers are encouraged to factor both premiums and discounts, in addition to yield, when making cottonseed selections. Growers should also rely on both on-farm and OVT trial results when choosing which varieties to invest in for 2017.

PhytoGen cotton development specialist for the Mid-Atlantic Joel Faircloth, Ph.D., sums up the PhytoGen® brand variety standings for Mid-Atlantic growers.

"PhytoGen brand PHY 333 WRF has been an exceptionally consistent variety, winning OVTs year-in and year-out," he says. "However, the quality of 333 is really the icing on the cake. Not only is PHY 333 WRF outyielding the competition, it also has better fiber quality, as shown in various on-farm trials and OVTs."

PhytoGen brand PHY 499 WRF and PHY 495 W3RF also continue to be high-yielding, durable varieties for the Mid-Atlantic region.

"The growth habit and maturity of 333 relative to 495 and 499 make them excellent compliments. With this combination of varieties, growers can cover their stronger soils as well as their tougher soils," Faircloth says.

PhytoGen brand PHY 495 W3RF continues to offer yields growers are accustomed to with PHY 499 WRF, but with the additional *Bt* gene for enhanced protection from bollworm. For growers battling soil-borne pests, PhytoGen offers PHY 487 WRF, which has two different native genes providing resistance to root knot nematodes.

PhytoGen introduces several other varieties in 2017 that contain the W3FE trait package in elite early and mid-maturing genetics. Where PHY 499 WRF is currently being planted, the new PHY 490 W3FE offers both WideStrike® 3 *Insect Protection* and the Enlist™ cotton trait.

"Producers should contact their local reps to evaluate the Enlist technology in genetics like they've seen with PHY 499 WRF," Faircloth says. "Evaluating results over multiple years and geographies greatly increases the probability of success when selecting a cotton variety."

2016 Yield Comparison Across South Carolina On-Farm Plots*

	Elliott, S.C. Lint yield (lb./A)	Blackville, S.C. Lint yield (lb./A)	Estill, S.C. Lint yield (lb./A)	Darlington, S.C. Lint yield (lb./A)	Average Lint yield
PHY 444 WRF	999	1044	955	1082	1020
PHY 490 W3FE	1022	942	900	972	955
PHY 333 WRF	1002	988	839		943
PHY 495 W3RF	935	956	831	1006	907
PHY 499 WRF	898	938	865		900

With consistently high yields and exceptional fiber quality, PHY 444 WRF is a great fit throughout the Mid-Atlantic region. PHY 444 WRF has performed well in South Carolina below the lakes in both on-farm trials and Clemson OVTs.

2015-16 Comparison of Early to Mid-Maturing Varieties, Clemson, NCSU and VT Official Variety Trials

Product	Lint Yield (lb./A)	Turnout (%)	Staple (1/32 in.)	Strength (g/tex)	Mic	Unif (%)	Loan Value ($/lb.)	Crop Value ($/A)
PHY 333 WRF	1,020	45.1%	36.5	29.3	4.54	83.0%	0.526	539
PHY 499 WRF	1,015	45.0%	35.6	31.0	4.74	82.9%	0.526	535
PHY 312 WRF	1,005	44.8%	36.5	30.3	4.59	83.2%	0.530	533
PHY 495 W3RF	992	45.1%	35.0	31.6	4.56	82.7%	0.524	523
PHY 444 WRF	970	45.5%	38.1	30.5	4.21	83.4%	0.537	522
ST 4848 GLT	970	45.7%	36.0	29.9	4.82	82.7%	0.521	507
DP 1522 B2XF	968	44.2%	36.0	29.5	4.84	82.7%	0.520	503
ST 4946 GLB2	936	42.7%	36.2	30.9	4.73	82.9%	0.526	494

*In northern South Carolina to Virginia, the early to mid-maturing PhytoGen® brand varieties have been the preferred choice among growers. Data includes yield and quality from locations where all varieties were tested. *Loan values are based on USDA AMS premiums and discounts associated with staple length, strength, micronaire, uniformity and assumes 0.52/lb. base.*

PhytoGen releases eight new varieties with the Enlist™ cotton trait for 2017

More new PhytoGen® brand varieties with the Enlist™ cotton trait and WideStrike® 3 *Insect Protection* are now available to help growers thrive in 2017.

"We're excited to follow the success of PhytoGen brand PHY 490 W3FE with this broader introduction of W3FE varieties. With both the Enlist cotton trait and WideStrike 3, these new PhytoGen varieties will help growers better manage resistant weeds and tough-to-control pests," says Hank King, U.S. leader for PhytoGen.

In addition to thousands of breeder trials, PhytoGen brand varieties also are rigorously evaluated in numerous company and university trials across the Cotton Belt.

"Growers can be confident PhytoGen brand varieties that we are recommending have been bred to perform in their specific geography and agronomic conditions," King says.

These new varieties complement the current PhytoGen offering that includes very early to mid- and full-season Upland varieties, as well as industry-leading Acala varieties and Pima varieties.

Two of the new varieties are very early and early maturities, bred for the unique conditions of the Southwest. They join the three varieties introduced last year specifically for West Texas that provide verticillium wilt tolerance. For irrigation response ratings of all Southwestern varieties, consult your local PhytoGen rep. The new varieties for Southwestern growers are as follows:

- PHY 220 W3FE
- PHY 300 W3FE

The remainder of the new varieties, ranging from early to mid maturities, are bred to fit areas across the Cotton Belt from South Texas to the Mid-Atlantic. The following also contain native traits that provide resistance to bacterial blight:

- PHY 330 W3FE
- PHY 340 W3FE
- PHY 380 W3FE
- PHY 450 W3FE
- PHY 460 W3FE
- PHY 470 W3FE

A longtime leader in the Pima market, PhytoGen also introduces another Pima variety with the Genuity® Roundup Ready® Flex trait for California, PhytoGen® brand PHY 888 RF.

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