

Pioneer® Brand Corn 2015 Seed Treatment Offerings



Top-end yield starts with matching the right genetics and traits to the right fields. Protect yield potential with the Pioneer Premium Seed Treatment (PPST) program.

Seed Treatment Program	PPST 250	PPST 250 plus DuPont™ Lumivia™ insecticide seed treatment	PPST 1250
Ingredients	<ul style="list-style-type: none"> • Fungicide: Maxim® Quattro (combination of thiabendazole, fludioxonil, mefenoxam, azoxystrobin)* • Insecticide: Cruiser® 250 (thiamethoxam) • Biological component (<i>Bacillus sp.</i>) 	<ul style="list-style-type: none"> • Fungicide: Maxim® Quattro (combination of thiabendazole, fludioxonil, mefenoxam, azoxystrobin)* • Insecticides: Cruiser® 250 (thiamethoxam), DuPont™ Lumivia™ (chlorantraniliprole) • Biological component (<i>Bacillus sp.</i>) 	<ul style="list-style-type: none"> • Fungicide: Maxim® Quattro (combination of thiabendazole, fludioxonil, mefenoxam, azoxystrobin)* • Insecticide/nematicide: Poncho® 1250/VOTiVO® (clothianidin applied at a high rate for protection of corn roots from feeding) • Biological components: VOTiVO (<i>Bacillus firmus</i>) and (<i>Bacillus sp.</i>)
Attributes	<ul style="list-style-type: none"> • Provides additional protection against seed and soil-borne diseases such as <i>Fusarium</i> and <i>Pythium</i> • Offers proven insect protection to enhance early-season plant health 	<ul style="list-style-type: none"> • New mode of action, Lumivia™ • Broader-spectrum insect control • Uniform, healthy stands • A 2.6 bu/a average yield advantage compared with PPST 250 alone and an 8.2 bu/a average yield advantage in responsive locations** 	<p>Same as PPST 250 plus:</p> <ul style="list-style-type: none"> • Protects seedlings and roots from nematodes and various insects, including corn rootworm
Availability	<ul style="list-style-type: none"> • Applied as standard treatment package for Pioneer® brand corn products for the 2015 growing season 	<ul style="list-style-type: none"> • Available exclusively on select Pioneer brand corn products for the 2015 growing season 	<ul style="list-style-type: none"> • Option for selected Pioneer brand corn products on as-ordered basis where an enhanced nematode or corn rootworm protection is needed as part of a seed treatment program

* Raxil® fungicide option available for select hybrids and geographies with head smut.

Pioneer Premium Seed Treatment Program

DuPont Pioneer provides a unique combination of insecticide, biological, fungicide and other seed-treatment components that complement our proprietary genetics and industry-leading traits. Seed treatment, along with proper seed selection and management, increases the chances of a successful and higher-yielding harvest.

Insecticide

The insecticide components of the PPST program offer proven, comprehensive protection against insects for enhanced, early-season plant health.

Insecticide Pest Protection			
Pest	PPST 250	PPST 250 <i>plus Lumivia™</i>	PPST 1250
Wireworm	++	+++	++++
White grub ¹	++	+++	++++
Grape colaspis	++	+++	+++
Black cutworm	+ ²	+++	+++
Seedcorn maggot	++	+++	+++
Fall armyworm (early season)	—	+++	—
Flea beetle	+++	+++	++++
Corn rootworm	—	—	++
Corn nematodes	—	—	++

¹Including Japanese beetle larvae, European chafer larvae, true white grub, annual white grub and May/June beetle larvae.

²Insecticide component labeled for protection.

— No control + Suppression ++ Control +++ Above-average control ++++ Excellent control

Biological

The biological components colonize the root surface, creating an enhanced root environment that helps promote early-season plant growth. It also:

- Increases root mass
- Improves plant performance and increased yield
- Maximizes early-season plant stands

Fungicide

The fungicide components include a four-way formulation, providing a new standard for broad-spectrum protection from seed, seedling and soil-borne diseases.

- Provides best-in-class systemic protection against *Fusarium*
- Helps protect roots and develop vigorous, healthy plants
- Maximizes early-season plant stands

Supporting Pioneer® GrowingPoint® Agronomy Research Update on PPST 250 plus Lumivia™ can be referenced on Pioneer.com website at: www.pioneer.com/home/site/us/pioneer_growingpoint_agronomy. **2013–2014 agronomy research and on-farm locations (160 locations):

- Across all locations, PPST 250 plus Lumivia™ insecticide seed treatment showed an average yield advantage of 2.6 bu/acre (yield increase at 59.4% of locations) over PPST 250 alone.
- In responsive locations (95/160 locations) PPST 250 plus Lumivia™ insecticide seed treatment showed an average yield advantage of 8.2 bu/acre.

Products treated with PPST 250 plus Lumivia™ have shown a 2.6 bushel/acre yield advantage on average over products treated with PPST 250. Data is based on average of all 2013–2014 comparisons through Nov. 26, 2014, made in 160 on-farm and Pioneer® GrowingPoint® agronomy research trials with a positive yield response in 59.4% of trials. Product responses are variable and subject to a variety of environmental, disease, and pest pressures. Individual results may vary.

DuPont
Lumivia™
insecticide seed treatment



PPST 1250 offering includes Poncho®/VOTIVO® 1250. Poncho® 1250 + VOTIVO is a blend of Poncho/VOTIVO and Poncho® 600. Poncho® VOTIVO® and Raxil® are registered trademarks of Bayer. Cruiser® and Maxim® Quattro are registered trademarks of a Syngenta Group Company. Some of the information set forth in the document may be based on statements by the manufacturers. All products are trademarks of their manufacturers.

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