



## BECK'S Extensive Seed Treatment Study on Corn – Continued

### Seed Treatment Descriptions:

		<b>Pests Controlled</b>
<b>Maxim XL:</b>	Beck's standard fungicide treatment that comes on all Beck hybrids. A combination of Apron XL and Maxim 4FS. Beck's trademark name is Sure Gro.	Fusarium, rhizoctonia, phytophthora and pythium. Seed-borne and soil-borne fungi, which cause seed decay, damping-off and seedling blight.
<b>Apron XL:</b>	A fungicide component of Maxim XL. In this test, additional amounts of Apron XL were added if it is listed.	Pythium, phytophthora.
<b>Allegiance:</b>	The original fungicide component of Apron FS.	Pythium, phytophthora.
<b>Vortex:</b>	A new broad spectrum fungicide that could be a substitute for Maxim. Label expected Fall 2004.	Broad spectrum like Maxim XL.
<b>Trilex:</b>	A fungicide in the strobilin family (Trifloxystrobin) that is derived from mushrooms. (Non-Systemic)	An additive to Maxim XL to aid in fusarium, rhizoctonia and pythium control.
<b>Dynasty:</b>	A new fungicide in the strobilin family (Azoxystrobin) that is derived from mushrooms. (Systemic)	An additive to Maxim XL to aid in fusarium, rhizoctonia, pythium and penicillium control.
<b>Poncho 250:</b>	A seed-applied insecticide for control of several early season insects. It is a standard component in Beck's FaSTart branded hybrids.	Wireworm, seed corn maggot, flea beetle, white grub, black cutworm, grape colaspis.
<b>Cruiser:</b>	A seed-applied insecticide for control of several early season insects. It has been a standard component in Beck's FaSTart branded hybrids.	Wireworm, seed corn maggot, flea beetle, white grub, grape colaspis.
<b>T22:</b>	T22 is a biofungicide developed by Cornell University that aids in the control of pythium, rhizoctonia, fusarium, and sclerotinia. The active ingredient is a beneficial fungus ( <i>Trichoderma harzianum</i> ) that colonizes on the roots to protect the plant from diseases caused by the destructive-type fungi previously listed.	Aids in control of pythium, rhizoctonia, fusarium, and sclerotinia.
<b>Myco Seed Treatment:</b>	A biological seed treatment that provides mycorrhizal fungi to aid in nutrient uptake, primarily phosphorus. The mycorrhizal fungi act like an extension of the root to funnel nutrients to the root.	N/A
<b>Myconate:</b>	Myconate® is a synthesized form of the naturally-occurring isoflavanone- formononetin- that was originally isolated from plant roots. This chemical stimulates the activity and colonization of plant roots by beneficial vesicular-arbuscular mycorrhizal (VAM) fungi. VAM are the state of fine roots of nearly all plants growing in soils of natural plant ecosystems. VAM increase the ability of the plant to absorb water, nitrogen and essential minerals by significantly increasing the effective absorbing surface area of the root system. This improved water and nutrition aids the plant in managing stress, such as soil water and mineral deficiencies and salinity. Increased phosphorus absorption and utilization by mycorrhizal plants also increase nodulation of legumes by nitrogen-fixing bacteria.	N/A
<b>PSF 1003:</b>	Precise Seed Finisher is the polymer used on Beck's FaSTart coated seed.	N/A
<b>Zinc:</b>	Adding micronutrients like Zinc on the seed corn causes elevated responses in tissue sampling and can improve yield in cold, stress conditions.	N/A