



# 2013 Corn Update

## Renwood Farms Now Treats Corn Seed

Growers have asked about treating corn seed to match specific fields with custom seed treatments. **For 2013, Renwood Farms is offering seed treatments for corn.**

**Poncho 250 to 1250:** for growers who seek extra protection from wireworms, flea beetles, **green stinkbugs** (see photo at right) and seed corn maggots. Green stinkbugs have become a bigger problem associated with no-till corn. Billbugs can be a huge problem especially South of the James. The table below shows the increase in insect protection gained by using higher rates.

**Pentilex Aqua®:** A germination aid that increases internal energy components of seeds to assist in germination improvement, seedling vigor and root development for improved and more uniform emergence. **Pentilex Aqua®** is a combination of concentrated fertilizer plus a patented plant “exciter” to provide a concentrated energy source that gets corn seedlings up and growing. Pentilex Aqua® does all the things expected from a pop-up fertilizer without the salt damage worries and equipment hassles.

**Corn Pro Advanced:** Formulated to give corn seedlings extra disease protection by **increasing the rates of fungicides**. It also includes **a zinc fertilizer**. Low rates of fungicides have not been as effective on Coastal Plain soils especially as planting dates start earlier than ever. Using low fungicide rates allows for diseases to build resistance. Corn Pro Advanced contains higher rates of two fungicide ingredients to provide a longer and more intense protective barrier against seedling diseases.

Zinc applied with the seed is an extremely effective way to provide zinc nutrition to corn. In 1972, Virginia Tech (Agronomy Journal, Vol. 65: 1973) increased



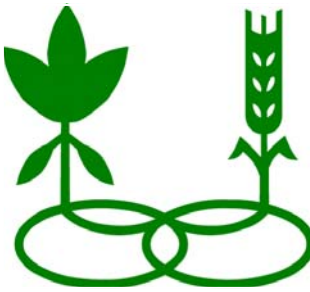
**Green stink bug damage to young corn plant.**

corn yields 53 bu. /acre on a Westmoreland soil by placing zinc directly on the seed. The plots compared as little as .3 lbs./ acre of zinc to broadcasting 24 lbs. /acre of actual zinc. This demonstrates that most corn is not getting enough zinc even with starter and sidedress applications.

**BioFlex® Biological:** This **Bio-Primed Inoculant** (BPI) technology is powered by probiotic (protective) microbes that are applied to seed to biologically protect, stimulate and enhance the seed’s growth genetics. **BioFlex®** is an encapsulated seed inoculant containing a **balance** of free living microorganisms.

**BioFlex®** protects the seed from pathogens outside the seed while promoting growth inside the seed. These specialized biologicals allow the seed to more efficiently uptake vital nutrients needed to promote a healthy growing environment for seed

IST rate	Wire-worm	Black Cut-worm	White Grub	Corn Root-worm	Seed-corn Maggot	Flea Beetle	Grape Colaspis	Billbug	Aphids	Green Stink bug	Thrips
250	++	++	++	NL	++	++	++	NL	++	++	++
1250	+++	+++	++	+++	+++	+++	++	+++	+++	+++	+++



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### Renwood Farms Seed

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For more information about Renwood Farms Seed, check our web page at:

<http://renwoodseed.com>

### Corn Seed Treatments (continued)

and seedling development. The BPI technology will defend against insect, fungal, and unfriendly growing conditions (i.e. cool, damp, wet). Works well when combined with **Pentilex Aqua®**.

**Poncho 1250 /NOTiVO®:** As we mentioned in the spring, Renwood Farms is certified to treat corn and soybeans with Poncho/VOTiVO to offer growers the opportunity to add nematode and increased insect protection to their corn crop.

According to the *Survey of Nematode Populations and Prevalence in Virginia Corn and Soybean Fields* (Balderson, et al. 2008), “nematode populations high enough to adversely affect yields and warrant control measures were found in nearly **35%** of the corn fields. Another **37%** of corn fields were identified with borderline-damaging (nematode) populations”. In other words, 72% of Virginia fields planted into corn may be suffering from nematode damage.

In 2011, in Essex Co., corn treated with Poncho/Votivo increased corn yields by 11 bu. /acre in a field with a known lance and root knot nematode history.

**How to get your corn seed treated:** When you order your corn seed from your seed supplier, simply ask that the seed supplier to deliver your seed to Renwood Farms or after it is delivered to you, contact Renwood Farms to schedule a delivery time. There is a minimum of 1,000 lbs. of seed or about 20 units of the same hybrid receiving the same treatment.

Once you decide which treatments to add, you or your supplier will be contacted when the work is complete. Pro-Boxes work better than bags but either can be treated. Bagged corn will be returned to you in different bags but are clearly marked and labeled.



Corn root knot nematode damage



Corn stubby root nematode damage



Corn lance nematode damage