



2016 Corn Seed Treatments

Renwood Farms treats corn seed for growers regardless of where the seed was purchased. All corn brands can be treated. There are four main treatments available.

1. **Invigor-8-Zinc®** improves seed germination, seedling vigor and root development to provide a uniform and vigorous emergence. **Invigor-8-Zinc** is a combination of nutrients plus a patented plant growth regulator that provides a concentrated energy source to get corn seedlings off to a powerful start..

Invigor-8-Zinc does all the things expected from a pop-up fertilizer without the handling, salt damage, terrible yield inconsistencies, and equipment hassles for 1/3 the cost.

| Treatment | # Fields | Acres | Yield Bu. /A |
|----------------|----------|-------|--------------|
| Invigor-8-Zinc | 37 | 664 | 211 |
| None | 85 | 1202 | 195 |

The table above shows the yield-monitor results from 664 acres treated with **Invigor-8-Zinc** compared to 1,202 acres without Invigor 8 in Central VA. **Invigor-8-Zinc** seed treatment increased yields by 16 bu. /acre in 2013.

The top picture on the right shows the even corn emergence with Invigor-8-Zinc seed treatment; the photo just below it shows uneven and very poor (slow) emergence of the untreated corn."

In 2015, one NC grower reported an increase in same-day emergence from 50% with untreated seed to 85% in corn seed treated with **Invigor-8-Zinc**.

The two photos at lower right show the difference in just one day of emergence. The goal is to get all corn in a field to emerge within one day of each other. In this VA Tech test, researchers measured the impact of even emergence. The top photo shows corn ears from corn that all emerged within one day of each other. The bottom photo shows corn that emerged two, three and more than three days after the first corn emerged. Uneven emergence by even two days can cause a yield loss of up to 94 bu. /acre.





2016 CORN SEED TREATMENTS

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Contact us with your questions! Ask about prices the best seed treatments for your farm.

Corn Seed Treatments (continued)

2. Poncho 250 to 1250: for growers who seek extra protection from billbugs, wireworms, flea beetles, *green stinkbugs* and seed corn maggots. Protect your corn stand: for every 1,000 plants lost (one plant per 17.5' in 30" row), yields are lowered by 7 bu. /acre.

3. Corn Pro Advanced is formulated to give corn seedlings extra disease protection by increasing fungicide rates. It also includes zinc. The low rates of fungicides that are applied as a standard treatment on corn seed have not been as effective on coastal plain soils, especially as planting dates start earlier than ever. Zinc applied with the seed is an extremely effective way to provide zinc to corn. In 1972, Virginia Tech (*Agronomy Journal*, Vol. 65: 1973) increased 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.

4. Poncho 750 /VOTIVO® offers 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 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. In a King and Queen field, soybean cyst populations have dropped from over 8,000/ 500 cc to less than 1,000 juveniles in three crops treated with Poncho/Votivo.

How to get your corn seed treated: Call Jeff to coordinate delivery of your seed to Renwood Farms. There is a minimum of



Corn root knot nematode damage



Corn stubby root nematode damage

1,000 lbs. of seed or 20 units of the same hybrid receiving the each treatment. **Treatments can be stacked.**

Get the most out of your crops by protecting the yield potential with **Renwood Farms corn** seed treatments.

Call us with your field and cropping history so we can provide specific recommendations for your fields.