



# 2018 Corn Seed Treatments

Renwood Farms will treat all corn seed brands for growers regardless of where the seed was purchased. 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 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 and equipment hassles. As with all pop-up fertilizers, it works best when used with a 2X2 corn starter.

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 slow emergence of the untreated corn.

In 2013, NC State compared corn seed treated with **Invigor-8-Zinc** to 3 GPA of 3-18-18 as an in-furrow pop-up (table below). Both treatments were used with a 2X2 starter fertilizer. The yield improvements were identical. The pop-up did perform a little more consistently (% Response below). In both treatments, "race-horse" hybrids performed better than "work-horse" hybrids. Earlier-planted corn responded better than later planted corn to both treatments.

3-18-18 Bu. /A	No 3-18-18 Bu./A	Yield Difference	% Response
222.7	214.0	8.7	62.3%
Invigor-8	No Invigor-8	Yield Difference	% Response
222.7	213.7	9.0	50.0%





## 2018 CORN SEED TREATMENTS

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**Contact us with your questions!**  
**Ask for 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



1,000 lbs. of seed or 20 units of the same hybrid receiving 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.