



## Insect suppression program

The Dramm "ONE" Fish Plant Food includes fish hydrolysate, trace minerals, sugars, nitrate nitrogen and fulvic acid. This combination includes high sugars, micro-nutrients, available calcium, available phosphorus and high electric conductivity

Based on the particular insect here is what I have used : All NOP listed inputs

**Seed corn maggot-** DE and Neem oil

**Corn Rootworm Beetle-** DE, Mycotrol O, Neem Oil

**Cut worm-**DE, Mycotrol O, Neem oil

**Corn Ear Worm-** DE, Mycotrol O, BT, Garlic oil, Cedar Oil

**Corn Borer-** DE, Mycotrol O, BT. Garlic oil, Cedar oil

## What about soil fertility

Cutworm and corn borer infestation is generally higher in high magnesium, low available calcium soils. Boron deficient soils complicate the problem because of reduced calcium uptake. Adequate zinc levels reduce plant stress and thus insect populations.

**Biological Insect Suppression Program** The use of biological inputs to suppress insects should be considered when the nutrient management program is deficient

## Insect suppression package

**DE** effective against cutworm, seed corn maggot, rootworm beetle and wireworm  
(soft shell insects)

**Neem Oil** is effective against root worm beetle, corn borer, earworm, armyworm and cutworm  
(both soft shell and hard shell insects)

**Mycotrol O** (*beauverria bassiana*) is effective for hard shell and soft shell insects.

**Bacillus Thuringiensis** (BT) is effective for soft shell insects

**Cedar oil** is effective for root worm beetle and earworm

## Seed Corn starter

For cut worm, root worm beetle, seed corn maggot and wireworm

**Suggested Formula to be added to the liquid starter**

3#	DE
10	Neem Blend 45 EM
optional	Mycotrol O

## Foliar application

**Corn Borer suppression-** add up to 10 oz Neem Blend 45 EM, and Mycotrol O\* at the 4th-7th leaf or a later Foliar application. This will depend on the flight of the moths.

**Corn Ear Worm suppression** - add 10 oz Neem Blend 45 EM and Mycotrol O at the Presilk stage (beginning tassel), reapply within 7-14 days depending on the heat units

## Cold Weather Stress - Magnesium sulfate (Epsom Salt)\*\*\*

Dissolve magnesium sulfate crystals (Epsom salt) in a clean barrel and warm water. Do not add directly to spraying tank. Keep agitating when added to sprayer to avoid settling. Apply up to 2#/ acre in 20 gallons water along with the Drammatic Liquid Fish and biological package

**Caution:** The undissolved MAGNESIUM SULFATE crystals will plug nozzle tips. Further, make sure the Epsom salt does not have a sand base carrier. This form of Epsom salt is generally a fertilizer grade product. Use feed grade Magnesium Sulfate

For years this formula has been used to reduce the stress on cold, high magnesium soils and other cold, wet soils. In these conditions the soil magnesium is, nutritionally, not available to the plant. With a single application the new foliage will generally have new color and vigor. Formulas used by Reginald Destree, LaCrosse, WI Feb 5, 2006

Neem oil, Garlic Oil, Cedar Oil, Safer Soap and Mycotrol O are EPA registered bio-pesticides