



**Fields thrive despite early frosts, untreated fields are destroyed
in Virginia and North Carolina**



(Left) SumaGrow treated tobacco field; (Right) Tobacco field treated with fertilizer only. Note the missing plants in the rows and the size of the leaves.

Our Treated tobacco fields in Virginia, North Carolina thrived despite five early frosts while the untreated fields were completely destroyed.

Thomas Elliott, owner of Elliott Farms, grows around 100 acres of tobacco among other crops. Elliott treated 30 acres of tobacco with the recommended split application of one gallon per acre. Both treatments were foliar applied (leaf as opposed to soil application). The remaining acres were treated only with conventional fertilizer. The treated fields had no disease or pest problems, not even the dreaded tobacco worm. The Tobacco did not see any of these problems despite having received no pesticide or herbicide application. The leaves were golden all the way to the top and perfect for harvesting. The untreated fields were destroyed by the frost and are not harvestable.



SumaGrow treated tobacco plant.
The leaves on the top of the stalk are
36+ inches long with no frost damage.

Frost damage occurs when the water inside the plant freezes and forms ice crystals, puncturing the plant cell walls. Because SumaGrow treated plants are more nutrient dense, they contain less water and are less likely to be damaged by freezing temperatures.

SumaGrow is an organically based consortium of non-genetically modified microbes that improves the health of the soil, increases crop yields and reduces expensive input costs. Because SumaGrow treated crops are stronger and healthier, they are better able to resist extreme temperatures, high winds and drought. SumaGrow increases soil organic matter and helps to balance the soil ph, creating a vibrant microbial environment attractive to beneficial organisms and bugs.

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