

LIFTOFF™ SEED TREATMENT SYSTEM

Stage 3

Combines the yield protection benefits of Stage 2 with a leading nematicide for control of soil borne parasitic nematodes.

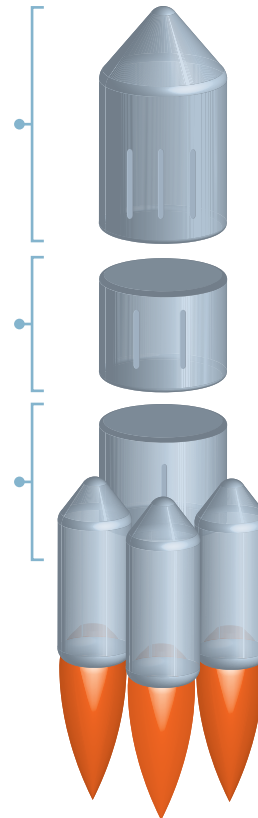
Stage 2

Combines the benefits of Stage 1 with select insecticide to protect against the harmful effects of early season insects.

Stage 1

Complete fungicide package protecting against a wide range of soil borne pathogens – boosting the plant before, during and after emergence.

Select biological components will boost each stage in Liftoff with benefits including improved nutrient uptake, water use efficiency, root growth, stress tolerance, disease resistance, insect control, and more.



Liftoff provides three stages of optimal protection to give your crop maximum boost.



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GIVE YOUR CORN A BOOST



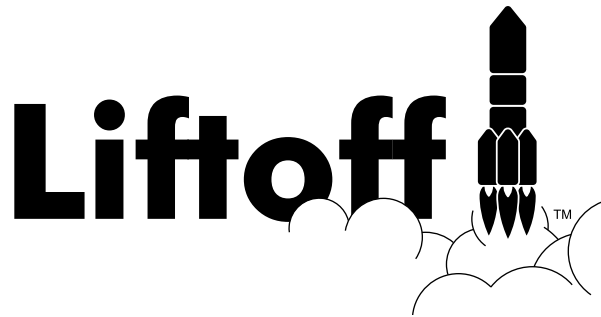
THE COMPLETE SEED TREATMENT PACKAGE

Cold weather, damp soil, disease, and insects can all wreak havoc on your crop. Liftoff seed treatment from Rupp is early-season crop insurance, protecting seeds and improving emergence. Doing so, provides a uniform stand which is crucial for your crop's success.

Which Treatment Is Right For Me?

There's a broad array of chemical and biological products available providing a range of pesticide, growth enhancement and plant defense benefits to your crop.

You can trust that our research and development staff has partnered with industry leaders and experts to bring you the best yield protection package available!



Liftoff Stage 1

Provides a **complete fungicide** package protecting against a wide range of soil borne pathogens – boosting the plant before, during and after emergence.

Fungicides Protect Against

- Fusarium
- Pythium
- Rhizoctonia
- Penicillium
- Aspergillus
- Helminthosporium

Liftoff Stage 2

Combines the benefits of Stage 1 with a **select insecticide** to protect against the harmful effects of early season insects.

Stage 2 can deliver **up to 13.7 bu./a** in yield benefit.

Insecticide Protects Against

- Chinch Bug
- Corn Flea Beetle
- Black Cutworm
- Thrips
- Seedcorn Beetle
- Wire Worm
- Seed Corn Maggot
- White Grub
- Grape Colaspis
- Corn Leaf Aphid
- Southern Green Stickbug

Liftoff Stage 3

Includes **leading nematicide** for control of soil borne parasitic nematodes. In three years of testing over 42 locations, Stage 3 has shown to **increase yields** by an average of **4 bu./a**.

Nematicide Protects Against

- Soilborne Nematodes
 - Pratylenchus (Lesion)
 - Needle
 - Hoplolaimus (Lance)
 - Dagger
 - Meloidogyne (Root-Knot)
 - String
 - Stubby Root
 - Spiral
 - Stunt
 - Pin
 - Sheath
 - Stem



All Stages Include

Select biologicals and **inoculants** that boost each stage with benefits including improved nutrient uptake, water use efficiency, root growth, stress tolerance, disease resistance, insect control, and up to an **8.5 bu./a advantage** over check hybrids.

Inoculant Provides

- More robust root system
- Increased water and nutrient efficiency
- Induces resistance to plant stress
 - dry weather
 - disease