Help your crop achieve its full potential with Heads Up® seed treatment. This seed treatment provides naturally occurring, broad-spectrum fungal protection with a unique mode of action, to help the treated plant defend itself from disease.

THE RESULT?

• Healthier, stronger plants
• Improved plant stands; 4 - 6% over seed-applied fungicides
• Consistent yield benefit.

Heads Up is economical protection. It costs less than $2.50 per acre which is less than a quarter bushel of beans investment.

Heads Up is safe to the user and the environment. It’s made from naturally occurring products.

Heads Up is easy to use. It’s a highly concentrated water soluble powder. It mixes easily and does not stick or produce strong offensive odors.

Heads Up contains no living organisms, unlike microbial products, and is not restricted by time limitations between treatment and use. Seed can be treated well in advance of planting, at your convenience.

Heads Up is compatible when mixed with other fungicides and inoculants for enhance disease protection, protecting the young plants from inside and out.

Heads Up provides a plant health insurance and vaccine program against Sudden Death Syndrome (Fusarium virguliforme), Pythium, Root Rot/Damping Off (Rhizoctonia solani) and White Mold (Sclerotinia sclerotiorum).

Heads Up is registered for use on soybeans, corn, potatoes, tomatoes, peas, beans and wheat.

What is Heads Up?
Pre-plant Seed and pre-transplant seedling treatment for the prevention of fungal and bacterial diseases of plants.

What’s In Heads Up?
Extract of Chenopodium quinoa saponins (containing approximately equimolar amounts of triterpene bidesmosidic glycosides of oleanolic acid, hederagenin, and phytolaccagenic acid) ............ 61.3%

How Does Heads Up Work?
Heads Up as a seed treatment will stimulate a warning signal to the germinating plant. This early warning will start the production of disease defense pathways in the plant before infections can get a start.

How Is Heads Up Applied?
Heads Up can be applied as a pre-plant seed treatment or as a pre-transplant seedling foliar treatment. See product label for specific application rates and instructions.

Available from: ENGAGE AGRO USA
Years of testing has proven that Heads Up systematically enhances disease resistance. Contact your local Engage Agro USA representative for additional trial data.

**Soybeans**

**Heads Up Trials for Soybean SDS**
University of Minnesota

<table>
<thead>
<tr>
<th>Treatment</th>
<th>Average Yield (bu/ac) at 13%</th>
</tr>
</thead>
<tbody>
<tr>
<td>HU x2 mixed with Com. ST</td>
<td>37.1</td>
</tr>
<tr>
<td>Untreated seed</td>
<td>39.3</td>
</tr>
<tr>
<td>Com. ST only</td>
<td>40.4</td>
</tr>
<tr>
<td>HU x2 over pre treated Com. ST</td>
<td>41.5</td>
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<tr>
<td>HU x2</td>
<td>41.5</td>
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<tr>
<td>HU x1</td>
<td></td>
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</tbody>
</table>

Com. ST = Commercial Seed Treatment

Dr. Dean Malvick University of Minnesota, 2013

**2011 Soybean White Mold Trial**
Iowa State University, Dr. X. B. Yang

Average means of number of White Mold diseased plants per plot

**Soybeans Grown Under Sclerotinia Disease Pressure**
Carrington, ND 2013

North Dakota State University, Carrington Research Extension Center

**Edible Beans**

**Clean Yield 15%**

Invotech Inc., Dr. Michael Harding, Brooks AB Canada 2011

North Dakota State University, Carrington Research Extension Center

**Dry Beans Grown Under Sclerotinia Disease Pressure**
Carrington, ND 2013

EPA Registration No. 81853-1 • US Patent No. 6,743,752 and 6,482,770