



Stoller Enterprises, Inc.

Bio-Forge[®]

2.0% nitrogen (N) composed primarily of N, N'- diformyl urea, 3.0% potash (K₂O)

U.S. Patent 6040273

Ensuring plant health through stress situations. Easy-to-apply at any time during the crop planting and growth cycle.

Bio-Forge is recommended for any crop under any form of stress. Bio-Forge facilitates normal cellular activity in abnormal stress conditions.

Benefits of Bio-Forge include:

- Increased growth of young plants and transplants
- Greater activity of buds, more branches, more fruit.
- Stops the physiological damage caused by insects
- Detoxifies the plant - Repairs herbicide and damage from toxins
- Overcomes the effects of drought

When plants encounter stress conditions they produce an excess of ethylene. This 'stress ethylene' impairs the plants cellular respiration. Bio-Forge purges this ethylene from the plant by replacing ethylene on the 'binding sites' within the cells mitochondria.

The benefits of allowing the plant to continue normal respiration are many. The plant can metabolise toxins giving more resistance to fungal, bacterial and viral diseases and herbicide damage.

Bio-Forge enables the plant to function under drought conditions. During respiration the plant can create cellular water, which can help the plant continue growth when there is a lack of external water. A single application can last for an entire season.

Bio-Forge can be applied to nursery crops, or any crop which needs rapid growth. Bio-Forge helps crops 'grow-off'. Bio-Forge can also be applied to transplants to alleviate the stress of transplanting creating quick uniform establishment.



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Bio-Forge can be used on any crop to help with any form of stress. Including: drought, transplanting, herbicide damage, disease, temperature extremes and flooding.

StollerUSA's Bio-Forge® is an antioxidant that purges plant cells of stress ethylene for all crops. Its groundbreaking technology has been validated by university studies to significantly increase the yields of food, feed and biofuel-producing crops.

Bio-Forge makes crops and plants stronger and better able to live through a number of stressful conditions including drought, flood and freeze. Bio-Forge helps protect growers' seed investment.

The strength of Bio-Forge has been verified and recognized by numerous university studies and awards.

In 2008, Bio-Forge was awarded the Frost & Sullivan, North America Agricultural Sciences Green Excellence of the Year Award. The award is presented annually to the company that demonstrates excellence in product advancement and technologies within their industry. For more details contact Stoller.

DIRECTIONS FOR USE

CORN:

Apply 1 pint/ acre in- furrow at planting - or -

Apply 1 pint/ acre with starter fertilizer at planting - or -

Apply 1 pint/ acre in broadcast spray from 6th leaf stage until tasseling (V6- Vt)

Apply 1/2 pint/ acre along with late- season fungicide sprays

Note:

- It is only necessary to use a single treatment per season.
- Earlier application will provide better protection from drought and potential herbicide damage.
- When comparing **Bio- Forge** with late- stage fungicide treatments, foliar spray 1 pint/ acre at the V12 stage before tassel emergence.



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CORN SILAGE:

Apply 1 pint/ acre at the V6- V7 stage.

SOYBEANS:

Apply 1 pint/ acre in- furrow at planting - or -

Apply 1 pint/ acre with liquid starter fertilizer - or-

Apply 1 pint/ acre at pre- flowering - or -

Apply 1/2 pint/ acre along with the foliar nutrient mix when using a pre flowering foliar fertilizer application - or -

Foliar apply 1 pint/ acre at the R4 to R5 stage of growth

Apply 1/2 pint/ acre along with late- season fungicide sprays

Note:

- Only one of the above application per season is recommended on soybeans.
- Testing has shown the when used with fungicide, Bio- Forge can be applied at 1 pint per acre when fungicides are applied.

WHEAT:

Apply 1 pint/ acre along with post- emergent herbicides - or -

Apply 1/2 pint/ acre along with late- season fungicide sprays.

COTTON:

Apply 1 pint/ acre in- furrow at planting - or -

Apply 1 pint/ acre with starter fertilizer at planting - or -

Broadcast 1 pint/ acre at MHS (Match Head Square)

Note:

- Only one of the above application per season is recommended on cotton.

RICE:

Foliar apply 1 pint/ acre 2 days prior to permanent flooding. **Bio-Forge** will help the plants access oxygen after flooding, a period normally associated with the yellowing of plants.

See restrictions.



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ALFALFA, MIXED HAY & GRASS HAY:

Foliar apply 0.5 pint/ acre. Only 2-4 applications per season.

ALL OTHER CROPS:

Broadcast foliarly 1 pint/ acre after plants have 3 true leaves until the time of flowering.

SEED TREATMENT:

For quick emergence, apply at 4oz/ cwt of seed. This treatment applies to all crops to express the full genetic potential of the seed and maximize the grower's return on investment.

