**Messenger®**

Healthier Crops, Improved Yields

**EDEN Bioscience Corporation®**

- 65 employees
- Local sales technical support staff throughout United States and Mexico
- Extensive research laboratories, as well as dedicated manufacturing facilities in Bothell

**Who Makes Messenger®?**

EDEN Bioscience Corporation

- Founded in 1994
- Headquartered in Bothell, Wash., a Seattle suburb
- Public company traded on NASDAQ, symbol: EDEN

**EDEN Bioscience Corporation®**

- In business to:
  - Develop, manufacture and market products that help growers efficiently produce healthier crops and improved yields
  - Focused on Plant Health Technology
What is Messenger®?

Messenger® is a unique type of crop production product. It is a plant health regulator.

The benefits are healthier plants and improved yields.

How Does Messenger® Work?

Messenger initiates a plant reaction that regulates overall plant health.
Harpin protein is the active ingredient in Messenger®.

It is identical to a naturally occurring protein.

The harpin protein binds to a plant’s receptors.

Plants are naturally equipped with early warning receptors that detect harpin proteins.

Receptors react to harpin as if it were a pathogen – stimulating the plant to act.

The plant responds by sending a signal (or message) throughout itself, initiating a sequence of physiological and biochemical reactions.

Natural plant processes are the delivery mechanism for Messenger® benefits.

Increased
• Nutrient Uptake
• Photosynthesis
• Vigor
• Reproductive Response

Plant Health

Growth Response

Environmental
• Physiological
• Pathogen

Stress-Defense Response
What Are the Benefits of Messenger®?

Plants treated with Messenger® demonstrate improved overall plant health, resulting in valuable benefits.

- Higher grades
- Fewer culls
- More marketable yield
- Consistency
- Percent increase
 Longer Shelf Life
 Improved Shipability
 Fewer Market Adjustments

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 Growth Response

 Plant Health

 Stress-Defense Response

 Extended Shelf-life

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 Environmental
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 Growth Response

 Plant Health

 Stress-Defense Response

 Improved Quality

 Increased Yield

 Extended Shelf-life