



NEWLY IMPROVED TECHNOLOGY

ABOUT AquaVantage®

It's Eco-Friendly and Offers Amazing ROI !!

- **AquaVantage®** is safe and biologically improves the soil. It holds and supplies water to plant roots
- **AquaVantage®** is a starch-based HYDROGEL, biodegradable Super Absorbent Polymer
- **AquaVantage®** Boosts root vigor, bumps crop yields and studies show it increases crop nutritional value
- **AquaVantage®** Helps reduce up to 25% of water and other input cost. A cheap insurance policy against drought
- **AquaVantage®** Amazing ROI for Vegetable Producers, Broad Acre Cash Crops, Horticulture, Nursery/Greenhouse, Forestry and Tree Orchards.
- **AquaVantage®** is shipped directly from our manufacturing facility to high-volume end users, farmer dealers and dealer/storefronts. No middleman = lower cost to the end user.

AquaVantage is a great improvement over its precursor, the "Zeba" brand hydrogel. AquaVantage manufactured costs have been reduced through expanded scale. Sunn Global Biologics LLC passes these savings directly on to the end user.

AquaVantage® At A Glance



What is AquaVantage

AquaVantage is a unique and patented starch-based granule. **It mixes with soil to increase the soil's** capacity for holding water and making it available to plants. This improved soil readily releases moisture, along with water soluble nutrients, to plant roots on demand. **AquaVantage** granules are formulated for efficient application to soil and plant roots through a variety of methods. Based on corn starch, **AquaVantage** is non-toxic and biodegrades through microbial activity in the soil. **AquaVantage** is **not** certified for organic growers.

How it Works

AquaVantage improves the water holding capabilities of soil throughout a growing season.

Soils treated with **AquaVantage** granules **don't 'bind' water tightly, and** release water in response to a **plant's root suction**.

The result is a consistent reservoir of moisture and nutrients that gives plants an advantage in attaining; faster germination, quicker emergence of seeds, consistent growth and higher, better-quality yields. In times of stress, this advantage is even more pronounced than in seemingly "normal" growing conditions.

AquaVantage Features

- Starch-based, biodegradable
- Made from natural cornstarch
- Absorbs more than 500 times its weight in water, then releases up to 95 percent of that held moisture as the plant demands it
- Rehydrates over and over again during the growing season
- Increases soil porosity and structure
- Can be applied in a variety of ways
 - Preplant
 - Postplant
 - Postemerge/side-dress
 - Seed coating
 - Root dip
 - Potting/soil mix

AquaVantage®

HOW IT WORKS



AquaVantage® CREATES HEALTHY MICROENVIRONMENT

AquaVantage is a unique and patented starch-based superabsorbent granule, which acts to provide increased moisture availability to plants. AquaVantage is the world's most advance superabsorbent technology, and the only superabsorbent optimized for demanding agricultural applications.

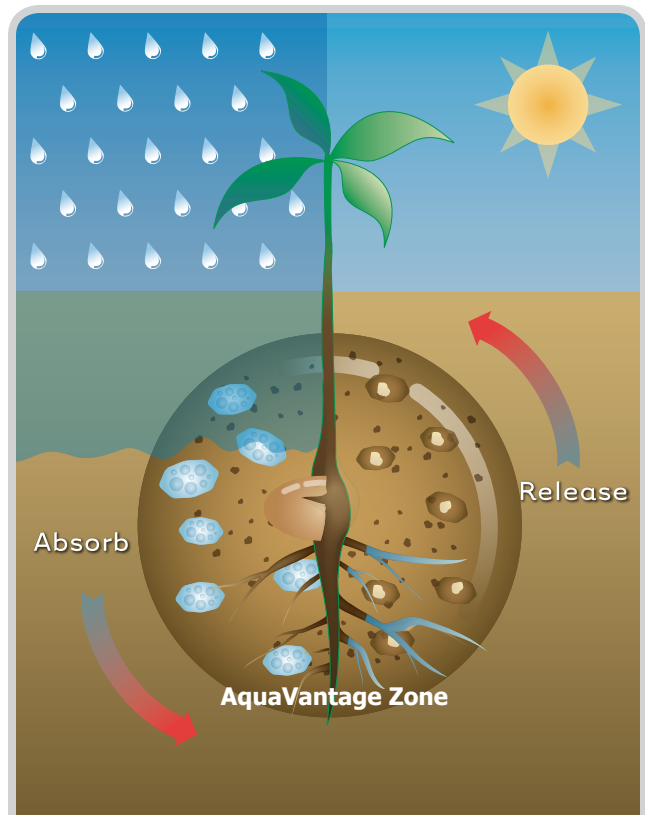
AquaVantage works similar to a sponge under the soil surface. It is capable of hydrating and releasing water over and over again during a growing season.

AquaVantage is composed of glucose molecules, which are linked together chemically to become a water-insoluble, net-like matrix that gently attracts and holds hydrogen molecules. The immense size and weight of its molecular structure allows each AquaVantage granule to absorb over 500 times its original weight in water.

AquaVantage does not bind' water tightly, as with polyacrylamides (PAMs) that are used for baby diapers and sold as a soil amendment. The AquaVantage granules release just the right amount of water in response to a plant's root suction. There is no waterlogging or other ill effects caused by free' water filling air cavities in the soil.

AquaVantage maximizes plant growth by reducing plant stress. It also absorbs and releases soil nutrients, water-soluble fertilizer and chemicals in the same manner as water, creating a healthy microenvironment in the plant root zone. The result is faster germination, quicker emergence of seeds, consistent growth and higher, better-quality yields of edibles with less water and fewer inputs.

AquaVantage lasts in the soil for approximately one year, depending upon the level of microbial activity. As a starch, it ultimately



As more water enters the soil, AquaVantage repeatedly hydrates and releases captured moisture, on demand, as plants need it for a year or more.

becomes a food source for the good' bacteria in the soil. AquaVantage is environmentally friendly, easily biodegradable and odorless.

AquaVantage was developed in association with the USDA. It enjoys consistent, proven success in worldwide commercial production and trials across a wide variety of agriculture, horticultural, sports field, reforestation, seed coating, and home garden applications.