

EXTEND™



EXTEND is an effective product to improve soil moisture infiltration and enhance irrigation efficiency in crops. **EXTEND** is a new, unique formulation of PAM that is easier to use and mixes more quickly than other PAM products on the market. Through the use of a new technology, a concentrated formulation has been developed which means you get great results while handling less product volume.

EXTEND will:

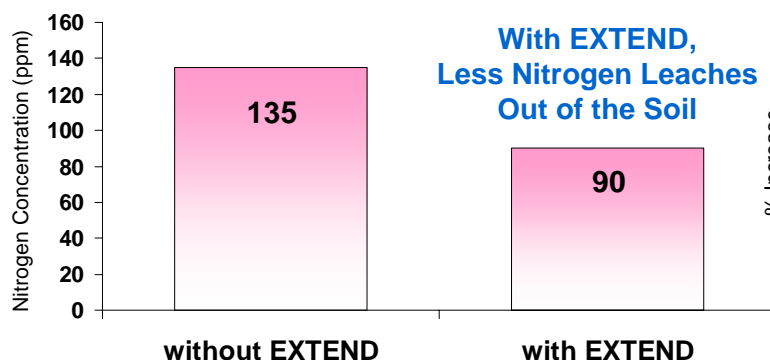
- Increase net water infiltration up to 40%
- Retain 30 - 40% more nitrogen in soil
- Reduce soil erosion by 99%
- Reduce soil crusting
- Reduce nutrient and pesticide runoff
- Reduce foreign matter on most root crops
- Reduce soil sodium levels in the top twelve inches

EXTEND Nitrogen Retention Study

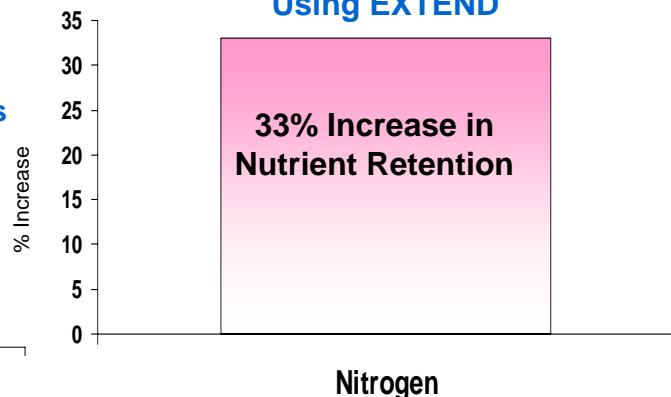
The study included 3 laboratory treatments:

- "Water only" to identify nutrients already present in the soil
- "Fertilizer only" to establish current nutrient retention and runoff
- "Fertilizer + **EXTEND**" to demonstrate increased retention and decreased runoff when using **EXTEND**

Nutrient Concentration in Leachate

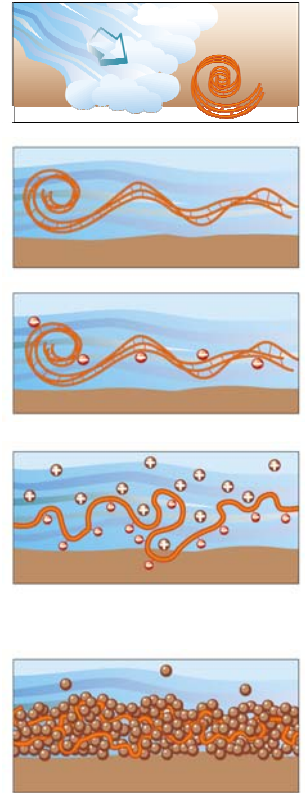


Percent Increase in Nutrient Holding Capacity When Using EXTEND



How Does EXTEND Work?

- **EXTEND** has a high molecular weight and is soluble in water.
- When **EXTEND** is in the presence of water, long microscopic chains form. Soil particles suspended in water are positively charged.
- The microscopic chains of **EXTEND** possess a negative charge.
- This charge not only attracts the positively charged soil particles, but also the positively charged nutrients applied through fertilization (such as NH_4^+ , K^+ , Ca^{++} , etc.).
- The resulting agglomerations are too large to remain suspended and consequently are held in place. By attracting nutrients and binding them along with the soil particles, the loss of nutrients during irrigation and rain events is reduced.
- Importantly, as the soil particles become larger, the soil structure becomes more open. This allows water and air to infiltrate into the soil better, improving irrigation efficiency.
- Since more irrigation water can penetrate the soil, sodium is moved lower through the soil profile. Your results may vary but studies conducted in west Texas has shown an average reduction of 27% in sodium levels in the top twelve inches of the soil profile.
- Applying **EXTEND** during the final irrigation prior to harvest makes the soil more “mellow” and less prone to crusting. Mellow soil isn’t as likely to form “clumps” on root crops (a major cause of foreign material dockage charges).



EXTEND Quick Facts

- **EXTEND** will stay active for 4 - 5 weeks and then breaks down into carbon dioxide, water and ammonia through UV light exposure.
- **EXTEND** may be applied broadcast or through a center pivot.
- Under most conditions, 1 - 2 quarts of **EXTEND** per acre should be used.
- **EXTEND** can be used as a harvest aid to reduce foreign matter on most root crops.

For more information, call 818-899-4686

EXTEND is formulated exclusively for:

**American Soil Technologies, Inc.
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EXTEND™

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