

## **SNF AGRICULTURE**

SNF is the world's leading manufacturer of water soluble polymers used for irrigation efficiency. The **FLOBOND®** line of Polyacrylamide (PAM) products provides a safe and efficient solution to water quality and quantity issues facing the irrigation industry.

PAM increases soil porosity, which promotes uniform percolation and useable volume of the applied water. However, when PAM is used on sandy soils, it decreases percolation and allows plants to retain and utilize more of the applied water before it passes through the root zone. The USDA Conservation Practice Standard Code 450 also provides support for producers using PAM to irrigation efficiency.

PAM has been used in the irrigation industry for many years and trials conducted by the USDA as well as local producers showing increased infiltration rates across all trials.

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### **BENEFITS OF PAM**

#### WATER QUALITY

- Soil erosion reduced by 94% in furrow irrigation
- Soil erosion reduced by 70-75% in sprinkler irrigation
- Reduces pesticide runoff
- Reduces nutrient runoff

#### WATER CONSERVATION

- Increased field infiltration uniformity
- Helps prevent furrow or soil crusting
- Decreases permeability in sandy soils
- Reduces water loss through evaporation
- Increases deep root zone moisture content
- Reduces water needs by as much as 20%

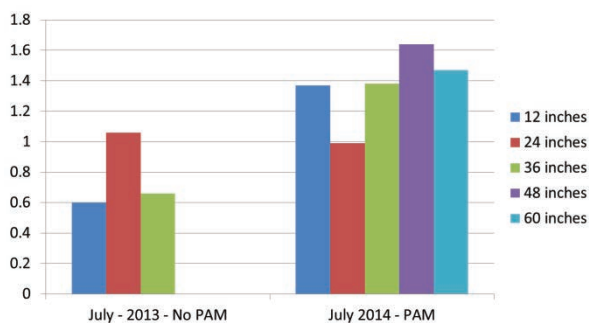
## SNF POLYACRYLAMIDE TRIAL RESULTS

The below trials are a sample of trials from across the U.S. that were conducted during the 2014 growing season. The results of each of the trials conclude that Polyacrylamide (PAM) increased soil moisture content and increased crop yields.

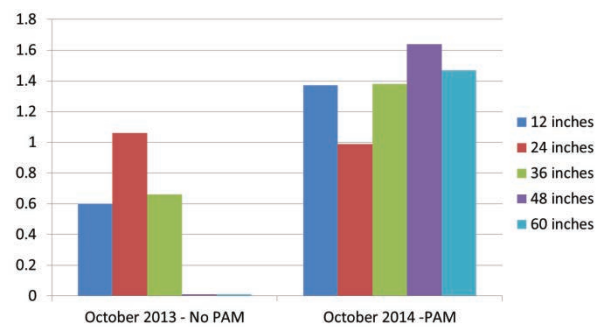
### Firebaugh, CA

Bill Dietrich Farms has had issues with water penetration in almond trees utilizing drip irrigation. After applying PAM on a 100 acre block, the company noticed a large difference visually, as well as in moisture reading. PAM was then added to the entire 840 acre farm. Moisture sensors showed an increase in 80% in 2014 vs. 2013 readings in season and post harvest.

Flobond Irrigation Results in Season  
Firebaugh, CA, 2013 vs. 2014



Flobond Irrigation Results Post Harvest  
Firebaugh, CA, 2013 vs. 2014



### El Nido, CA

Heating mapping of a crop in Merced, CA shows an increase in plant health in 2012 vs. 2013 during which period, PAM was introduced to the left portion of the field. Water penetration with a PureSense reported only 1 foot of percolation on the crops on the left. Water penetration with a Decagon meter on the right side reported percolation to 3 feet.

Plant Health YOY - Aug 26<sup>th</sup> vs. Aug 26<sup>th</sup>

