

# POLYON<sup>®</sup> – AG

## *“Releasing the Potential”*

Strawberry Production with **POLYON<sup>®</sup>** and **TriKote<sup>®</sup>**  
Controlled Release Fertilizers

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### Strawberry Bulletin

California is recognized as the world leader in high quality strawberry production. California achieved this recognition through advancements in marketing and technology. The J.R. Simplot Company is proud that its new lines of controlled release fertilizer (CRF) products, **POLYON<sup>®</sup>** polymer-coated fertilizers (PCF) and **TriKote<sup>®</sup>** polymer-coated, sulfur-coated fertilizers (PCSCF), are recognized as a technological breakthrough for profitable California strawberry production. **POLYON<sup>®</sup>** and **TriKote<sup>®</sup>** CRF technologies have increased strawberry yield with superior quality from Baja to Salinas since their introduction in 1994. Distributors and growers appreciate the agronomic benefits that Simplot’s **POLYON<sup>®</sup>** and **TriKote<sup>®</sup>** CRF’s have to offer.

### **The Strawberry Crop Production Challenge**

Industry demands on CRF products are explicit: Insure continuous balanced plant nutrition throughout the strawberry production window. The versatile controlled release characteristics of **POLYON<sup>®</sup>** and **TriKote<sup>®</sup>** CRF products gives Simplot’s distributors the power to prescribe cost effective blends for each strawberry growing region. From the southern peninsula to the cool central coast, **POLYON<sup>®</sup>** and **TriKote<sup>®</sup>** CRF have faced those challenges and *surpassed expectations*.

### **Environmental Stewardship**

California coastlines are on the EPA list of areas susceptible to fertilizer groundwater contamination. The J.R. Simplot Company is a primary fertilizer supplier to production agriculture, and is dedicated to promoting environmentally sustainable farming practices. **POLYON<sup>®</sup>** CRF improves nutrient uptake in strawberries and other crops, decreasing the potential of nutrient lost to groundwater. The controlled release mechanism of **POLYON<sup>®</sup>** CRF releases nutrients that mirror plant uptake. **POLYON<sup>®</sup>** CRF products are a logical fit for Best Management Practices (BMP) of today and tomorrow.

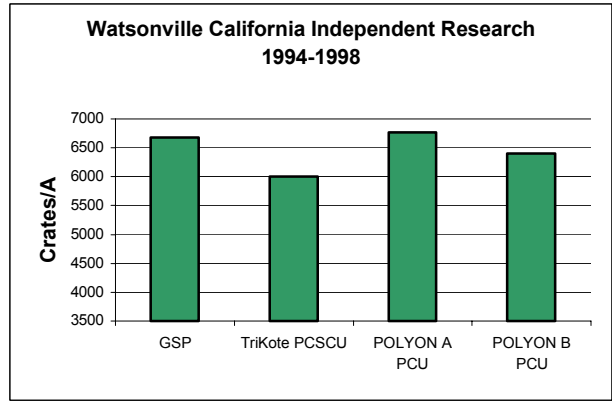
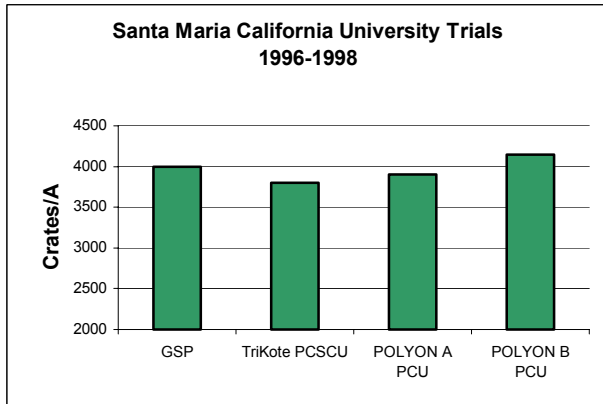
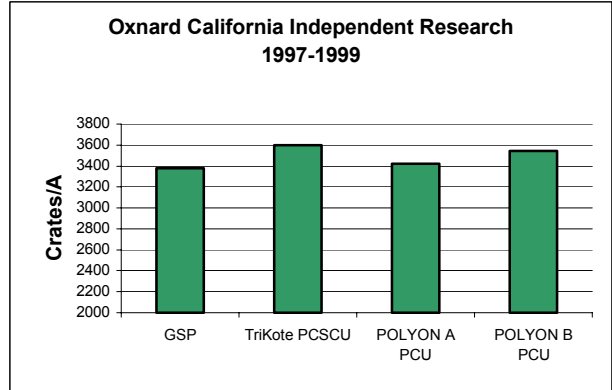
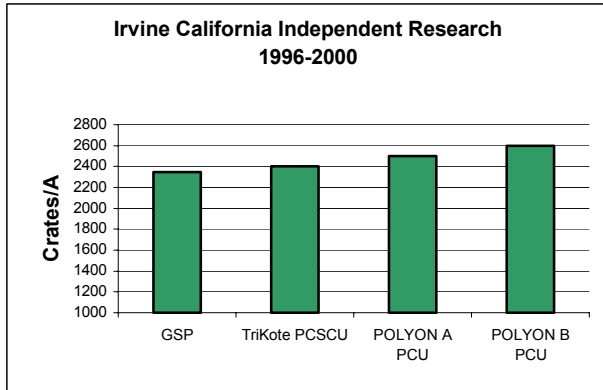
### **Advanced Controlled Release Technology**

Simplot’s **POLYON<sup>®</sup>** and **TriKote<sup>®</sup>** CRF products are proven technology leaders in the controlled release fertilizer business. The controlled release process begins when soil moisture enters a **POLYON<sup>®</sup>** PCF granule. Next, the encapsulated fertilizer is dissolved and released to the root zone through the **POLYON<sup>®</sup>** polymer coating. Nutrient release from **POLYON<sup>®</sup>** is not affected by rainfall, irrigation, or microbial activity but only by soil temperature: the warmer the soil, the more rapid the release. As crops grow faster with warmer soils, they need more nutrients and they receive what they need from the **POLYON<sup>®</sup>** bead. Prescription fertilizer programs are developed to meet individual crop demands and soil temperature regions by changing the polymer coating thickness. **POLYON<sup>®</sup>** almost eliminates nutrient loss, gives strawberries the right amount of nutrients, and helps strawberry growers maximize profitability.

**Strawberry Yield Response**

**POLYON® and TriKote® Controlled Release Nitrogen  
Vs.  
Grower Standard Practice (GSP)**

“Through independent and university trial cooperators, Simplot has continued to establish data supporting our **POLYON®** and **TriKote®** materials. Trends repeatedly show Simplot’s CRF products providing positive fertilizers choices for CA strawberry growers. GSP products used in the trials were industry leading and always area specific. The following graphs represent trend harvest averages in each respective growing area.



**Simplot CRF Features and Benefits**

Patented Polymer Coatings .....	Safe, Reliable (N) Feed
Prescription Blends .....	Area Specific Products
Return on Investment .....	Value Based Program
BMP Friendly .....	Improved (N) Efficiency