POLYSULPHATE®

Trial

Almond
(Prunus dulcis)
on a sandy loam

Polysulphate fertilizer is a soluble, easily-absorbed, cost-effective answer to crop nutrition, containing four key plant nutrients: sulfur, potassium, magnesium, and calcium

S	19.2%
K	14%
Mg	3.6%
Ca	12.2%

ICL

When

Fall 2020 to Fall 2021

Where

Parlier, California, USA
(Syntech Research)

Crop

Almonds - Butte and Padre varieties
(Prunus Dulcis)

Soil type

Sandy loam
7.6-7.8 pH soil

Measurements

Yield, Tissue and Soil Analysis

Mined in the UK, ICL is the first – and only – producer in the world to mine polyhalite, marketed as Polysulphate.

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or contact our agronomy experts at:
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Objective

Evaluate the performance of Standard Polysulphate spring or fall applied compared to the grower standard practice on almonds in California.

Treatments

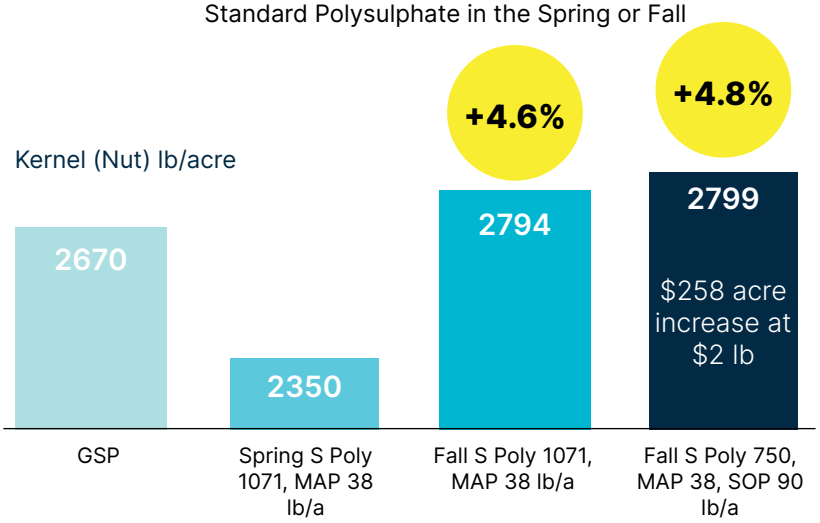
Treatment	Application Timing	Application Rate (lb/acre)
Grower Standard Practice (GSP)	Spring	0
Polysulphate Standard + MAP	Spring	1071 + 38
Polysulphate Standard + MAP	Fall	1071 + 38
Polysulphate Standard + SOP + MAP	Fall	750 + 90 + 38

Polysulphate side discharge broadcast spreading along the tree line

Results

- Standard Polysulphate in the spring had lower yield, but the same rate of 1071 lb/a fall applied showed a 4.6% kernel yield increase over the GSP.
- An increase of 4.8% over the GSP was achieved with 750 lb/a fall applied Standard Polysulphate+38 lb/a MAP+90 lb/a SOP.
- Soil electrical conductivity, sodium, nitrate, phosphate at the end of the season were lower with Polysulphate compared to GSP – influencing better soil quality and NUE (nutrient use efficiency).

Positive Almond Kernel Yield with Fall Standard Polysulphate
Standard Polysulphate in the Spring or Fall



Conclusion

- Standard Polysulphate 750-1071 lb/acre fall applied to orchard floor tree lines was effective at increasing kernel yields.

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