

## **METHODOLOGY**

Trial was done to support the union of apple technicians that represent one third of the total apple cultivation area (around 15,000 Ha). Strategy was to incorporate the use of thiosulfates to the existing fertilization program. Doses were calculated according to growth stage, fertilization program from the technician and soil-water-foliar parameters using the concept of *Steiner Nutrient Solutions*.

## TREATMENT

Thiosulfates applied each 12 days per ha:

- Sprouting: April: Thio-Sul 20 l/ha
- Flowering and Fruiting: May: CaTs 140 l/ha, MagThio 60 l/ha and KTS 40 l/ha
- Fruit growth: Jun: CaTs 140 l/ha, MagThio 60 l/ha and KTS 40 l/ha

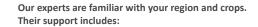
## **RESULTS**

- Better soil conditioning and better plant root and foliage development were achieved vs control
- A better size and color was achieved in the fruits where Tessenderlo Kerley products were applied than the control
- The use of Thio-Sul, CaTs, MagThio and KTS increases crop yield by 8.81% more than the control
- The amount of profit increases by 7.7% with 2.58 tons more than the control
- The benefit:cost ratio was 7:1 times its recovery

Yield + 8.81 % more than the control, additional fertilization cost was \$191.00 USD, but it delivered \$1,357.00 USD of additional income.

## CONCLUSION

Thiosulfates helped to reduce sodium, chlorides and therefore pH. Implementing *Steiner Nutrient Solution* based recommendations for a more balanced nutrition could also improve yields in other crops since many fertilization protocols are empirical or adapted from sources that do not always deliver the best result.



- Agronomic advice
- Providing technical information
- Carrying out field studies that are specific to your issues
- Providing application and storage tips







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