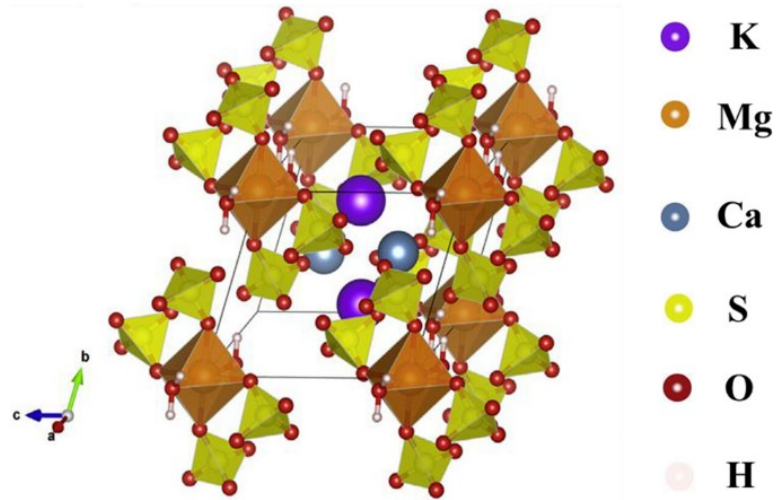


Fertilizer Efficiency: Fertilization Strategies for Cotton Growers



Polysulphate: A 4-in-1 mineral

- Naturally occurring; **ONE** single complex crystal “**not a mixture**”; “*many salts,*”



- The World's Only Polyhalite Mine | ICL Boulby | Zoe Cooper picture

Polysulphate Nutrient Release

Polyhalite Mineral
(Polysulphate®)



Single, Integrated Crystal

Dissolves in Soil Solution

Sulfate drives dissolution —
cations follow to maintain charge



Sulfate-Driven Dissolution

Co-Release Into Soil



Anion (—)



Nutrients Co-Released in Original Ratio



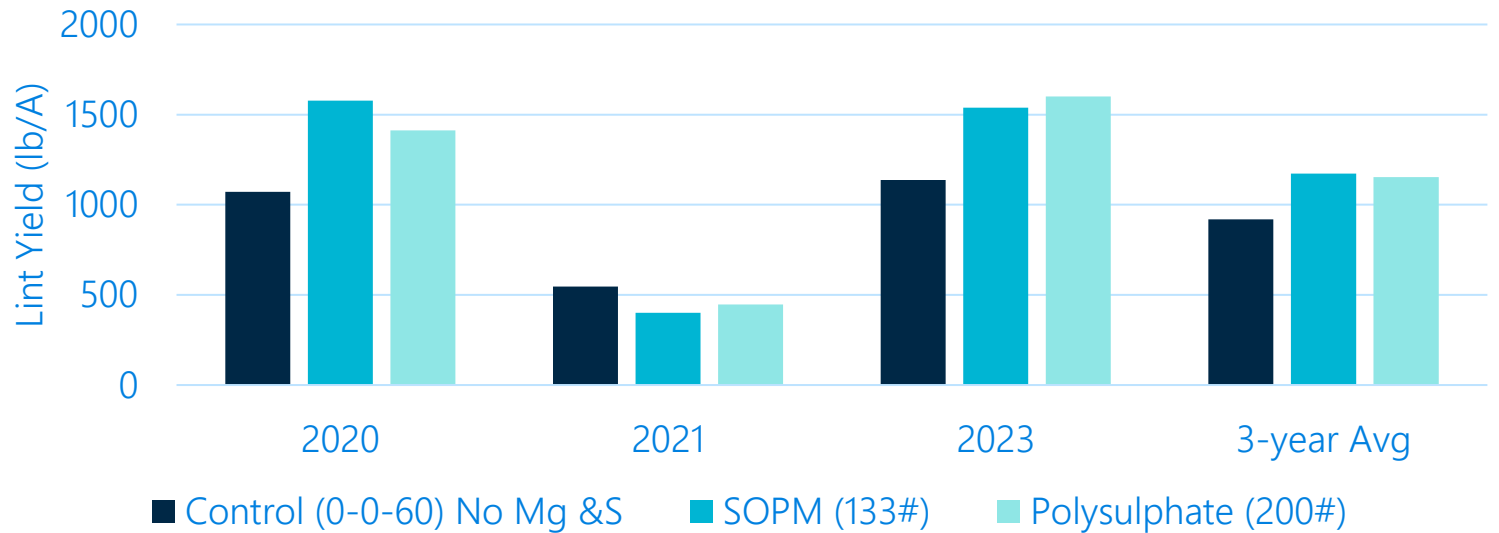
Polysulphate

- In Field Results

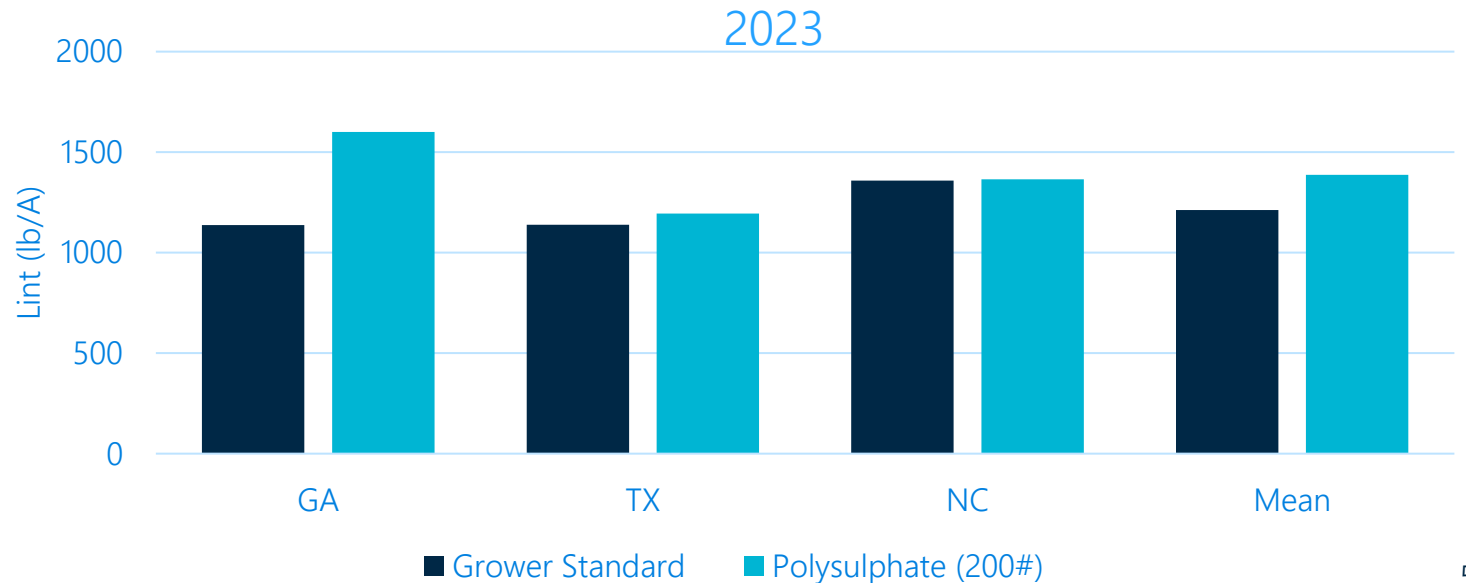


Polysulphate effect on Cotton Yield in Southern States

Polysulphate increased yield by 20% over the control in a UGA Trial.



Polysulphate increased yield by an average of 13% over the Grower Standard.

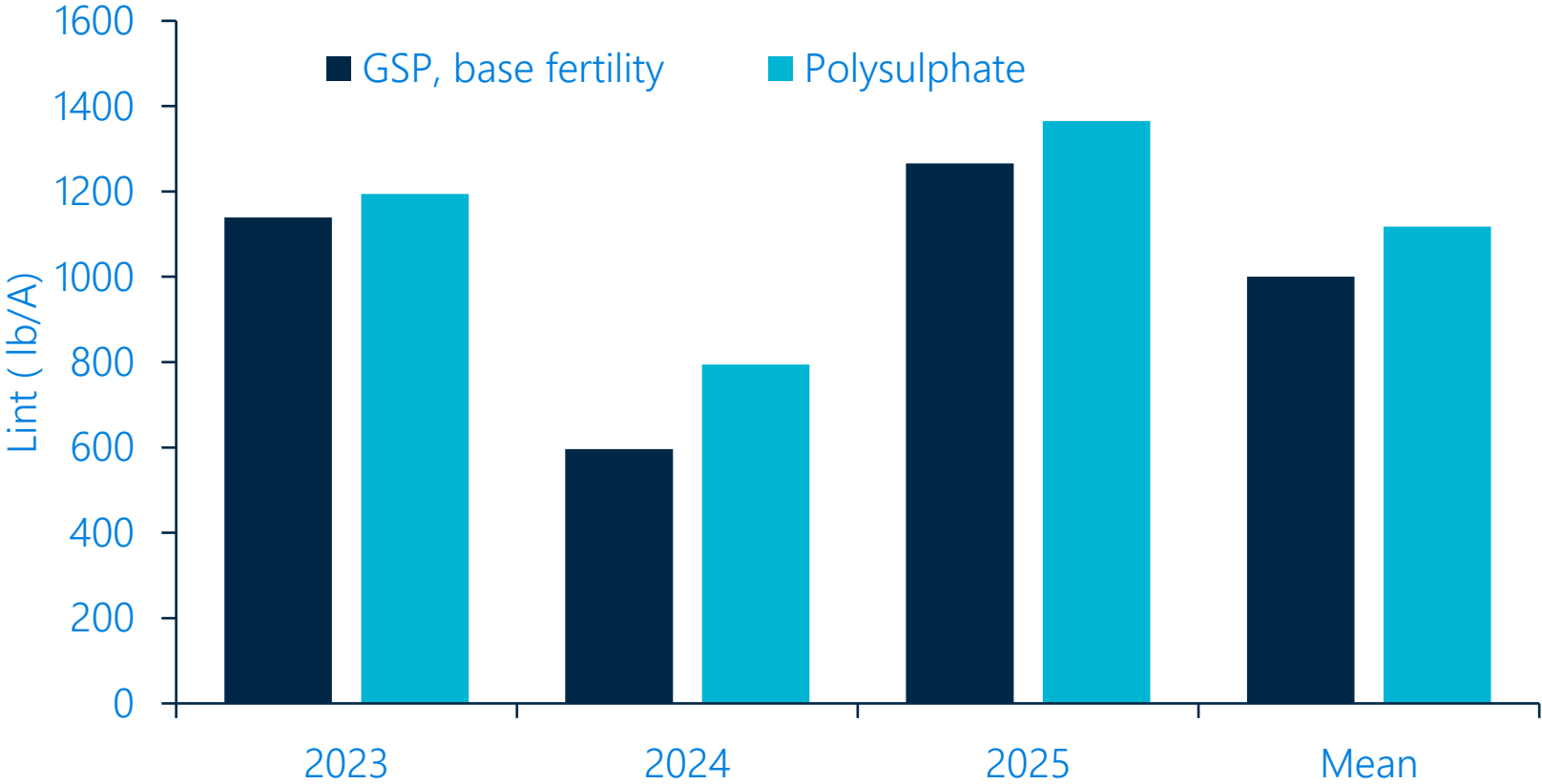


- Grower Standard 0-0-60 applied at 100-120 # K2O per acre
- Polysulphate 0-0-14, 19S, 3.6 Mg, 12 Ca at 28# K2O

Polysulphate Increase Cotton Yield in Lubbock TX.

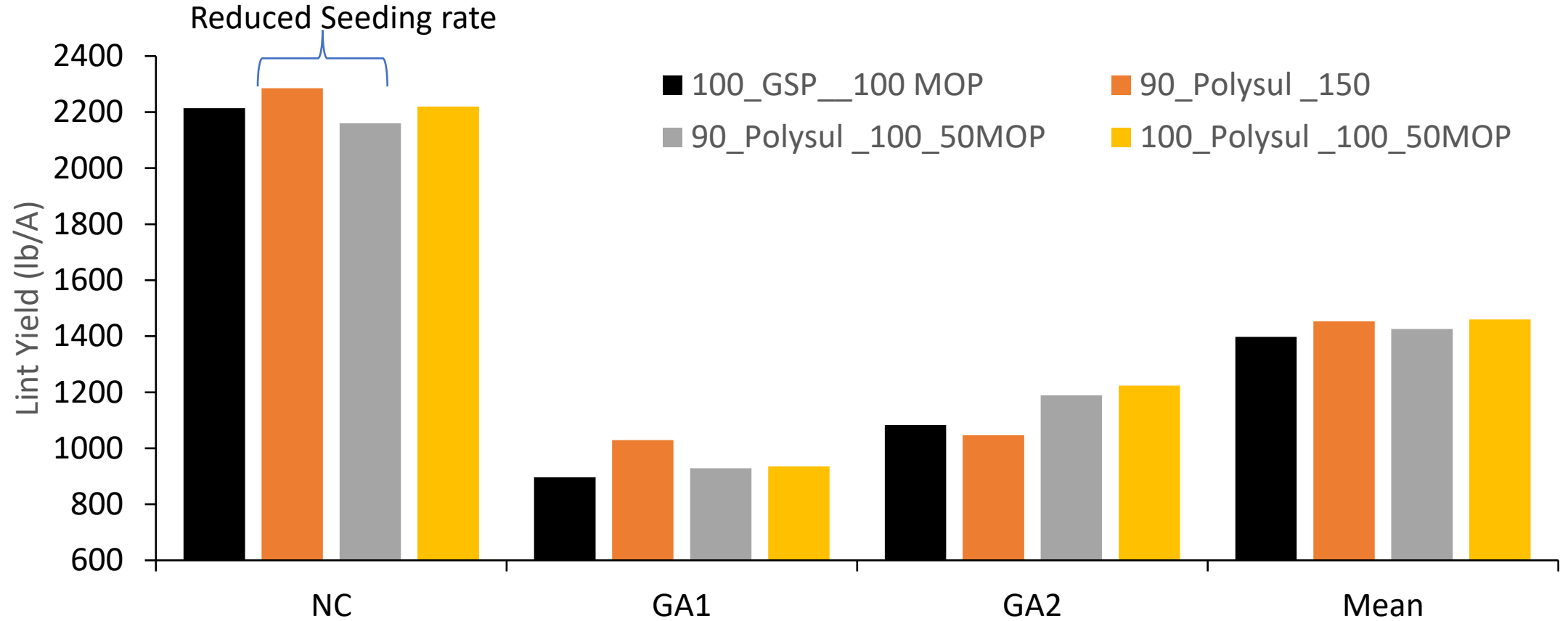
2023-2025, Dr. Katie Lewis, Texas A&M, Lubbock TX

Polysulphate increase yield by 12% (~120 lb/A) over the GSP



Reducing MOP & Seeding rate with Polysulphate

2025 Cotton Trial Three Locations NC, GA



Polysulphate and MOP was applied pre-plant. MOP was applied pre- plant 100 lbs/A
Fertilizer applied: GSP: 100# MOP (60 # K2O). Polysulphate 150# (21 # K2O), Polysulphate 100 # (14 # K2O) + 50# MOP (30# K2O) =Total K2O 44#.
Treatment were not statistically different

Summary - Not Just Another Fertilizer

Polysulphate is different

- Polysulphate is more than a fertilizer
 - Consistently increase cotton yield
 - Reduces chloride input in potassium program
 - Improves how calcium function
 - Restore soil back to structural stability





Thank you

www.polysulphate.com

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E-Learning

