

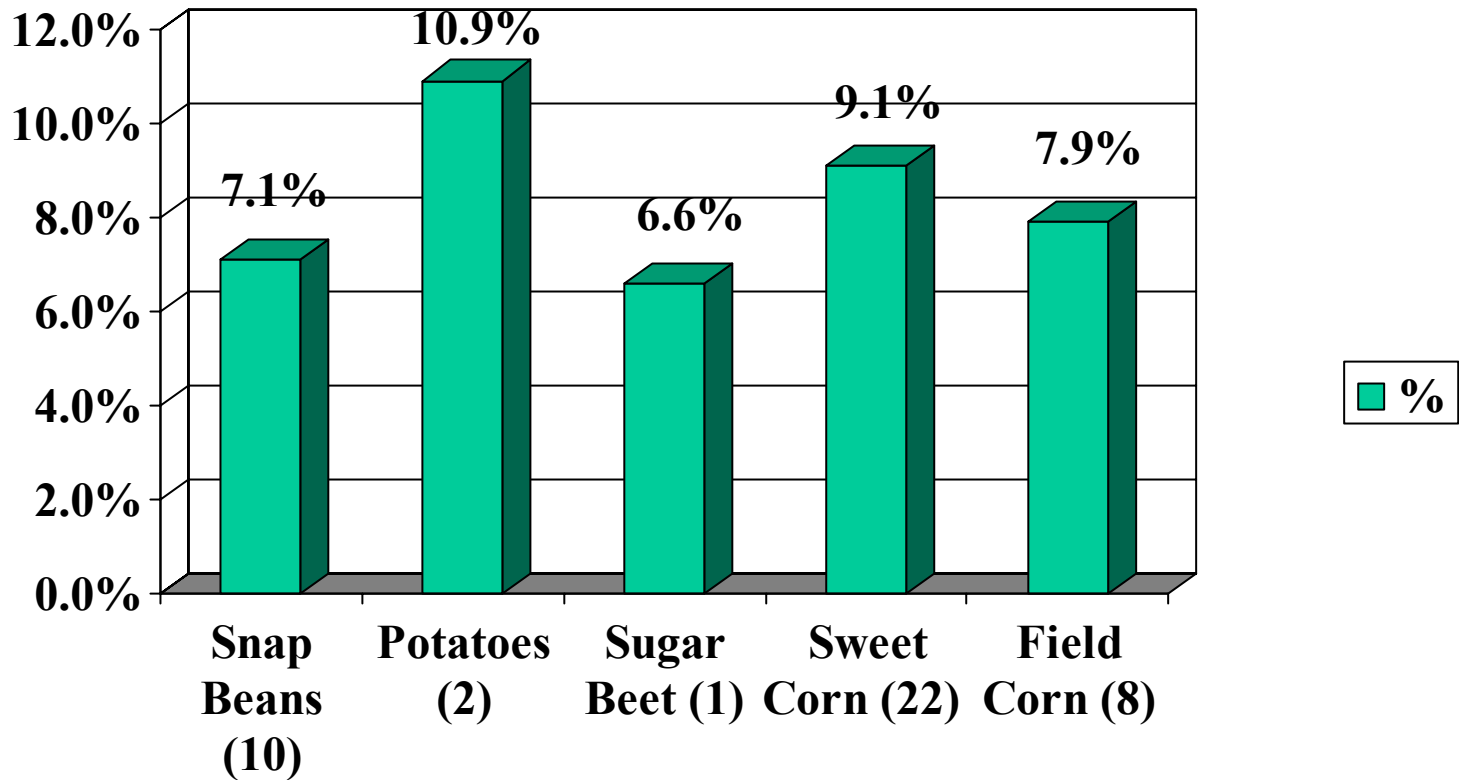
# How does T-PA work?

- T-PA is a crystal growth inhibitor, which delays the formation of insoluble, unavailable precipitates due to the interaction of positive ions such as ammonium, potassium, calcium, iron magnesium, copper, and zinc with negative anions such as phosphate, nitrate, sulfate, chloride or bicarbonates.

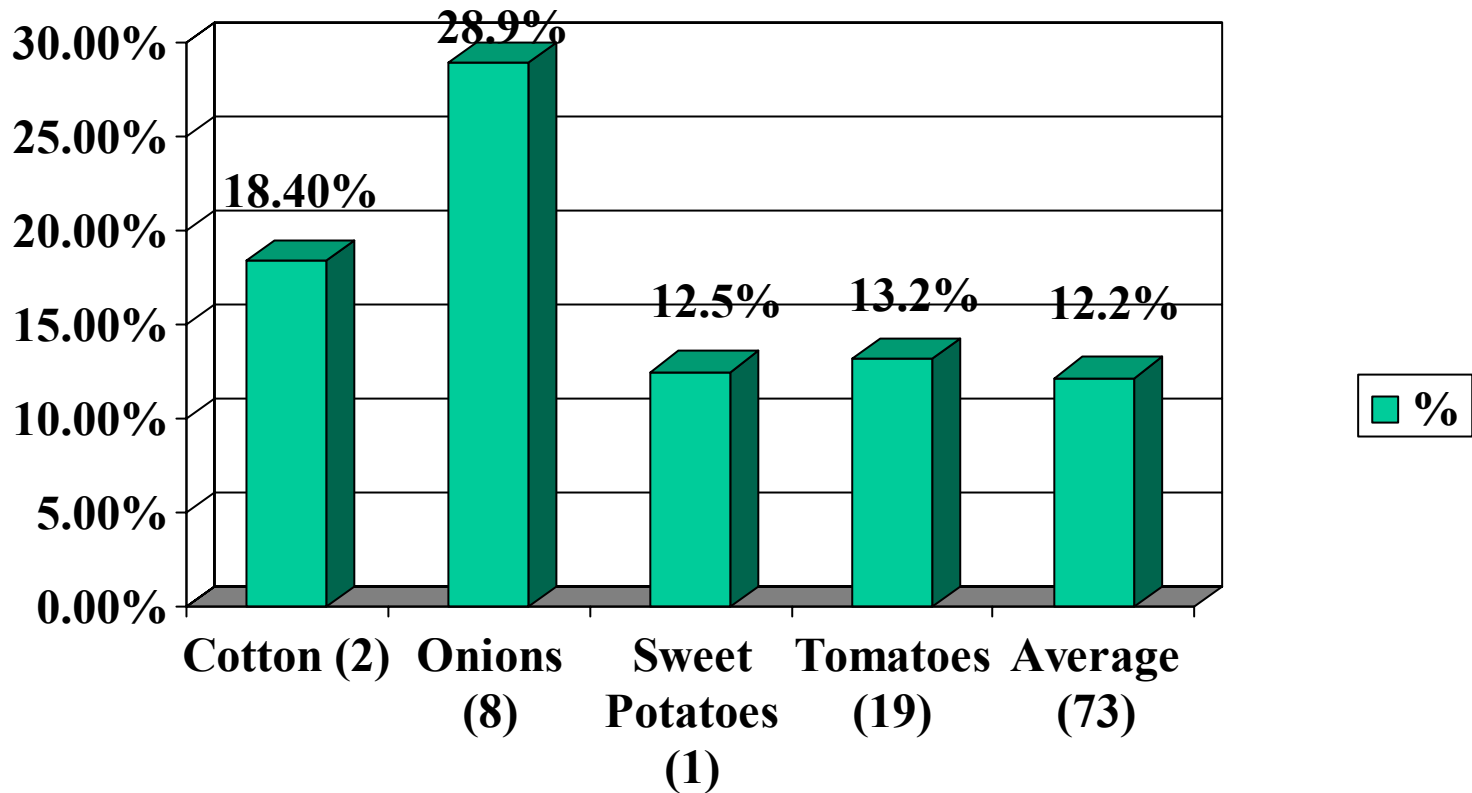
# What are the benefits of using T-PA?

- Better nutrient availability.
- Improved root development and seedling vigor.
- Higher utilization of applied nutrients - phosphorus, calcium and zinc.
- Potentially lower fertilizer rates.
- Higher yield and improved quality.

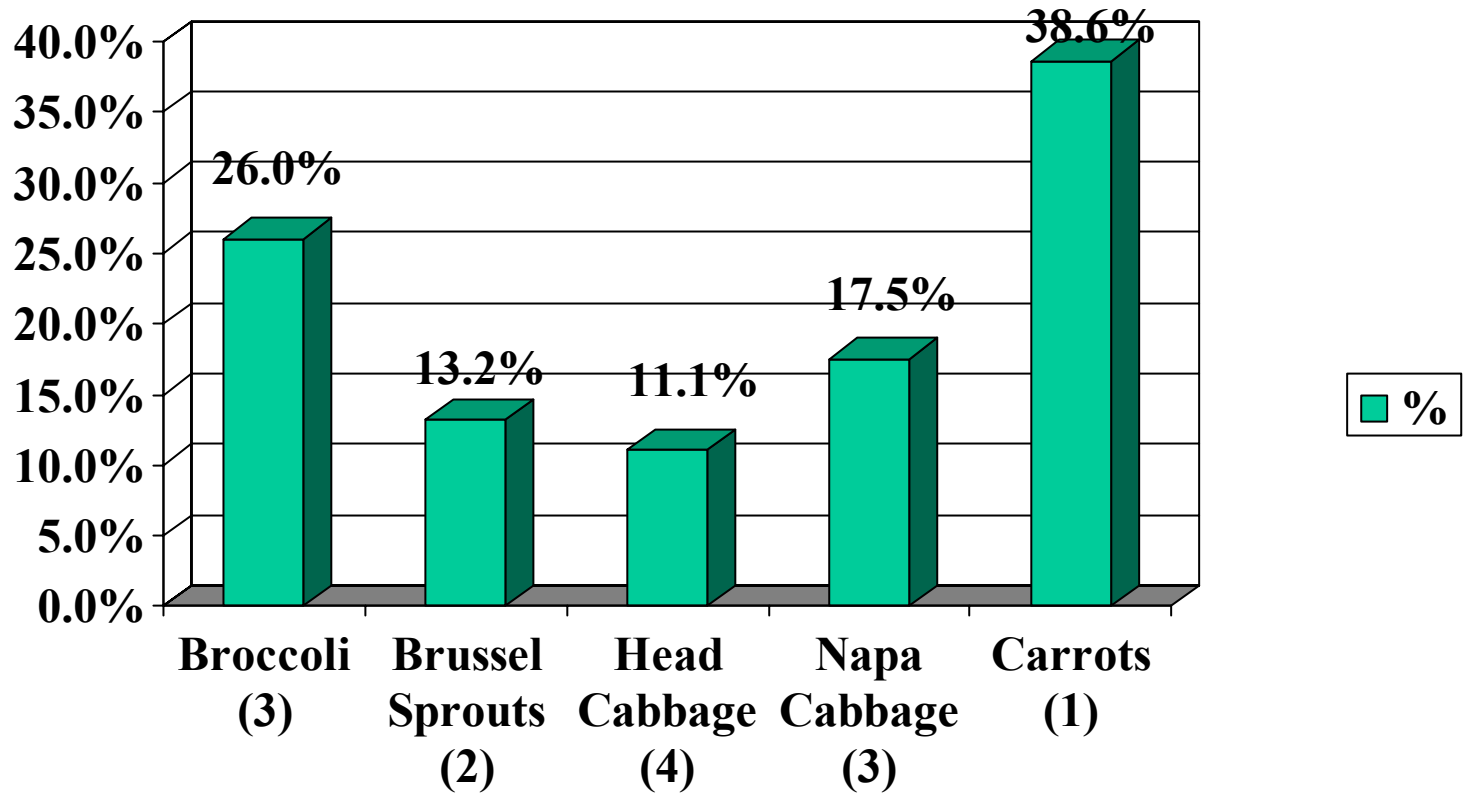
Western Farm Service Inc.  
T-PA on Row Crops - Field Trials 1996-2000  
% Yield Increase



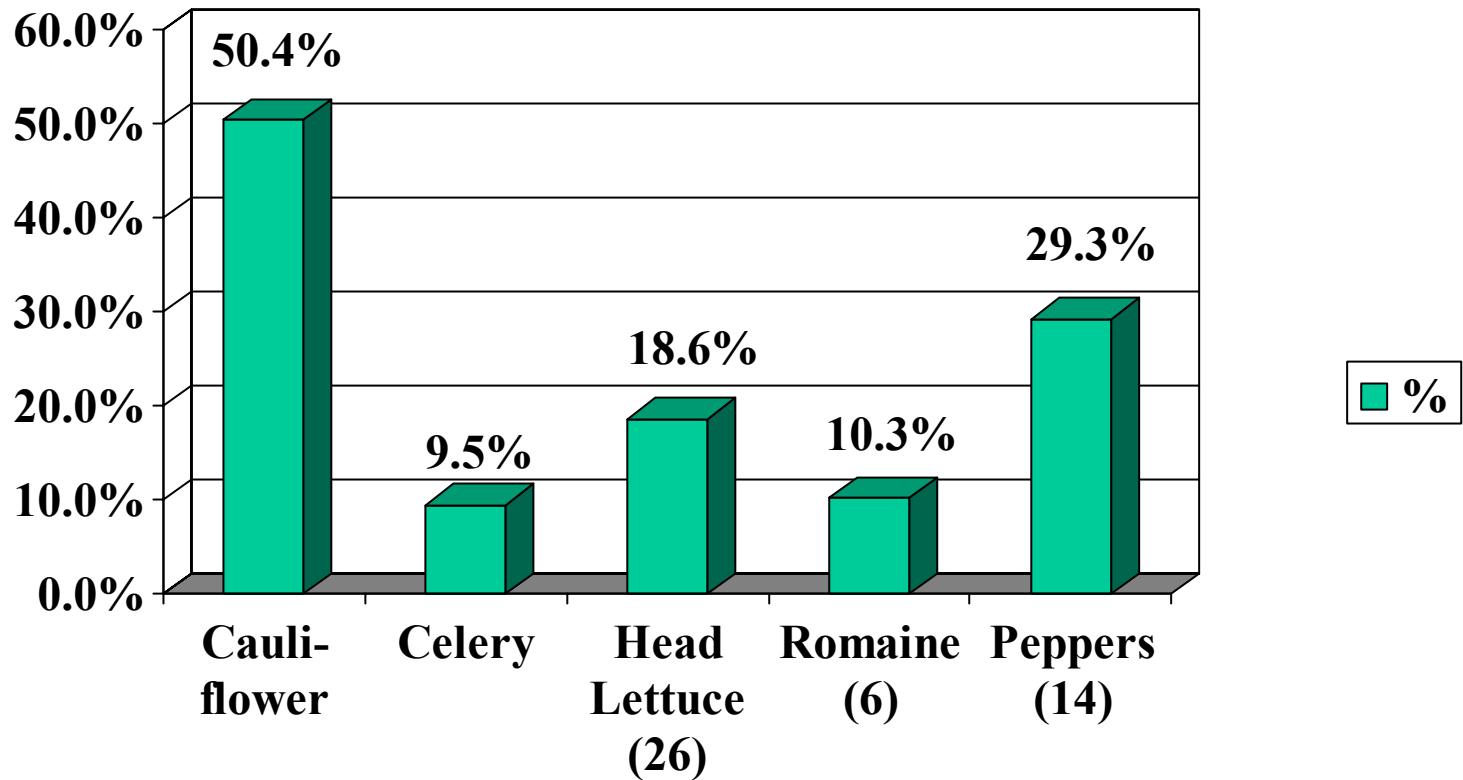
Western Farm Service Inc.  
T-PA on Row Crops - Field Trials 1996-2000  
% yield Increase



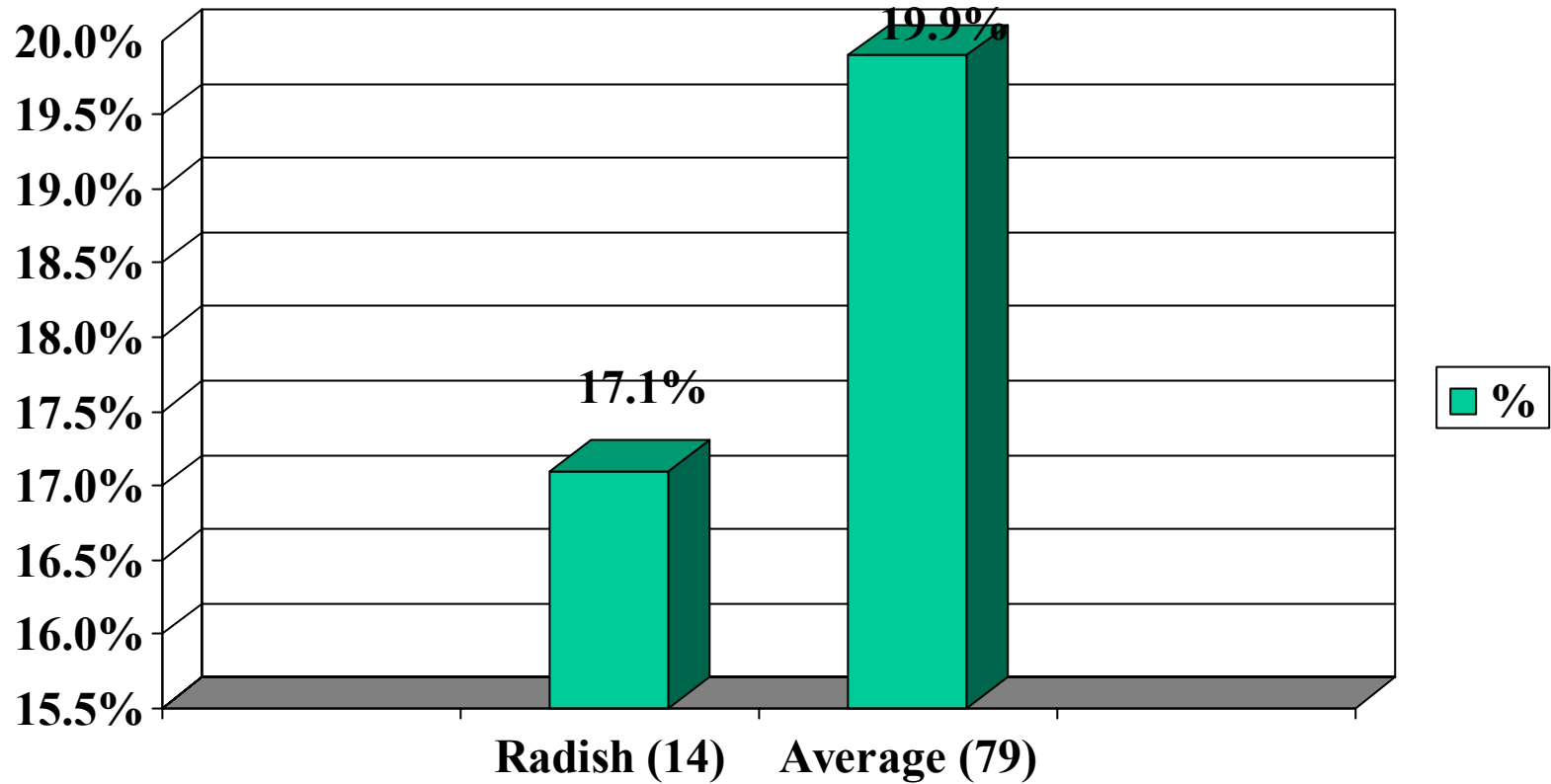
Western Farm Service Inc.  
T-PA on Vegetables - Field Trials 1996-2000  
% Yield Increase



Western Farm Service Inc.  
T-PA on Vegetables - Field Trials 1996-2000  
% Yield Increase



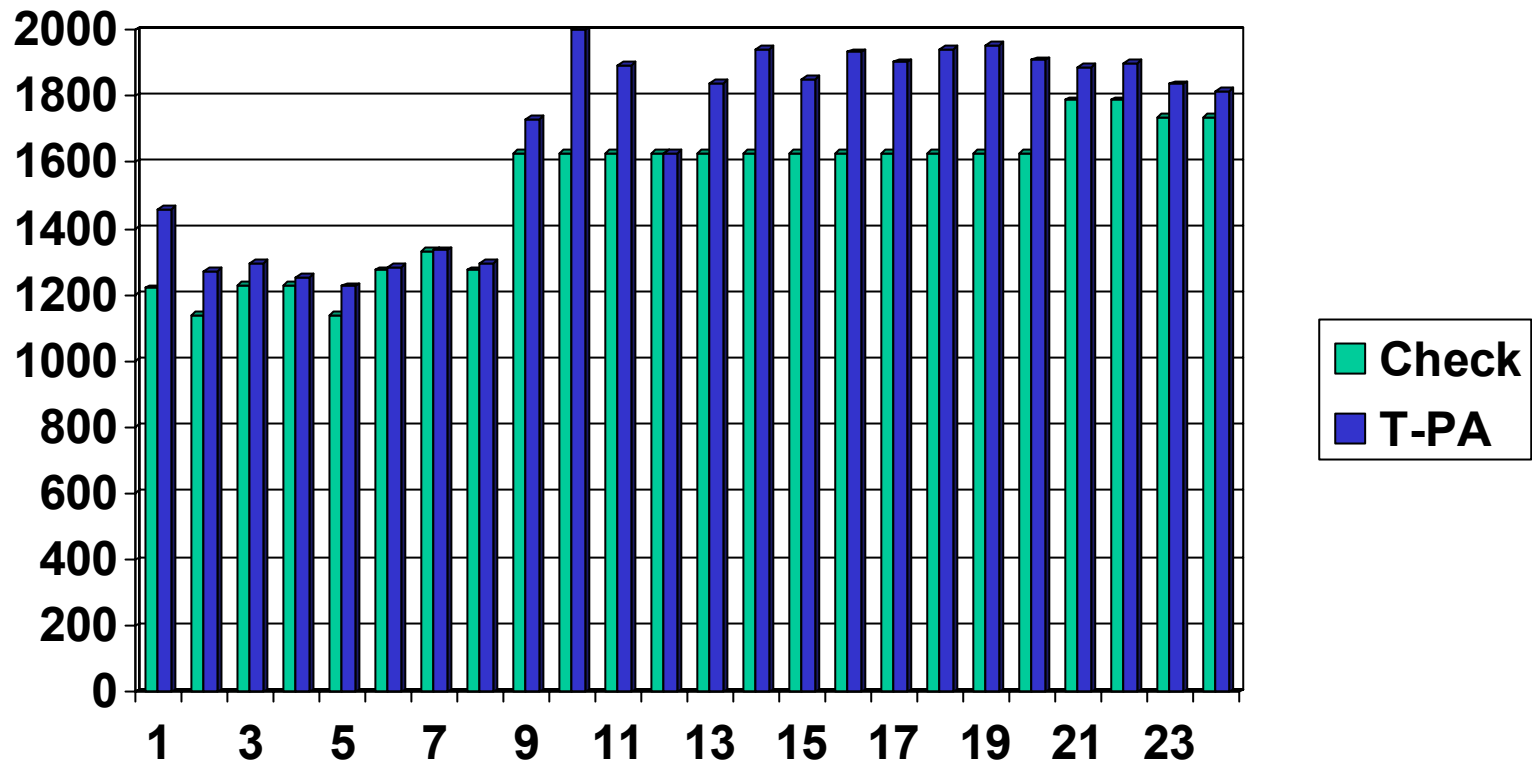
Western Farm Service Inc.  
T-PA on Vegetables - Field Trials 1996-2000  
% Yield Increase



# T-PA COTTON TRIALS

## UNIVERSITY OF CALIFORNIA

Lbs of lint



## SUMMARY - COTTON TRIALS UNIVERSITY OF CALIFORNIA

- **24 trials** - Overall average increase of using T-PA was 169 pounds of lint per acre.
- **5 trials** - Application of 1, 2 or 3 quarts of T-PA with starter fertilizer increased average yield 158 pounds of lint per acre.
- **7 trials** - Application of 2 or 3 quarts of T-PA with UAN 32% sidedressed increased average yield 114 pounds lint per acre.
- **5 trials** - Application of 1 or 2 quarts of T-PA with starter plus 1 or 2 quarts sidedressed increased average yield by 97 pounds.
- **3 trials** - Application of 1 or 2 quarts of T-PA sidedressed plus 1 or 2 quarts foliar increased average yield 270 pounds.
- **3 trials** - Application of 1/2, 1 or 2 quarts of T-PA foliar with ESP increased average lint yield 309 pounds per acre.
- **1 trial** - 2 quarts T-PA broadcast increased yield 237 pounds per acre.