



MATURING TOP CROP

TO SPEED BOLL DEVELOPMENT REQUIRES:

NITROGEN

- QUANTITY - maximum utilization depends on volume of developing boils.
 - FOLIAR up to 20 lbs/ac of Low Buret Urea at 3-7 day intervals - uptake can be improved by several adjuvants - trisert, carbon, spreash, sticker, etc.
 - WATER - SOIL frequent small increments (5-8 lbs/ac of N) are best as rains can cause critical complications when too much N is in the soil.
- FORM - Urea (NH₂) N is utilized more efficiently and faster by plants as it is assimilated unchanged directly into protein formation in plant processes.
- WHEN does the plant requirements exceed the ability for root uptake?
 - When soil supply runs out or becomes unavailable
 - Usually at heavy boll set demand exceeds supply
 - When the root activity is slowed
- WHY is root activity slowed ?
 - Stress
 - Lack soil moisture
 - Too much soil moisture
 - Nematode or disease
 - Root growth inhibited by growth controlling hormones
 - Physical damage

STIMULATE with PGR's to improve efficiency of uptake of nutrients & moisture by aiding root growth.

- PGR can also stimulate over all plant processes.
- Caution use low rates 1-2 oz at one time as influence peaks in 2 wks and it can take 4 wks to play-out.

CARBON

- Carbon compounds can supply carbohydrates to improve N:C ratios
- Can increase leaf penetration and sticks to surface for better uptake.
- Faster Nitrogen utilization occurs with abundant carbohydrates from sugars (refined), molasses (crude + Micros and other beneficial compounds), and/or humic acid (complex-polysaccharides and other growth stimulating compounds).