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Soil-Water-Plant Analysis - Consulting

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MULTI-FRUITING: Cotton, Melons, Peppers, Soybeans, Peanuts -- MONEY MAKING TIME !!!

WHEN WHITE BLOOM are mid-way up stalks till full bloom the highest return on **COST OF INPUTS OCCURS.** OVER 5 BLOOMS per foot of row (1/3 bale) can be produced with present superior genetic varieties. Count bolls (doubles) – S Locks – 9 Seed/lock all indicate increases.

THE KEY is BALANCED NUTRITION!

WATER - Abundant Scientifically Sound Research (triple R, double S and PRP) shows water is used 3 to 10 times as efficiently when nutrition and other physiological aids are used PROPERLY! Ask the plant weekly N & P and alternate Minerals & Micros now.

ONLY A PRECISION CROP LOGGING PLANT ANALYSIS PROGRAM can best tell, when coupled with experienced field and lab professionals, what – how much & when nutrients and adjuvants are most **COST EFFECTIVE – Return On Investment.** Traditional practices and products usually only maintain average yields and quality – seldom set new highs.

NUTRITION: MUST BE BALANCED;

NITROGEN in greatest demand and is the key to volume- about 300 lbs for 5 bales/ac

- ◆ Too much too early reduces yield and quality potential.
- ◆ Too little too late can be equally as bad.
- ◆ **Plant feed & drink every day** in small amounts, about 1/3 to 2 lbs actual N/day.
- ◆ 15 – 20 lb/day of N at one application can interrupt fruiting and maturity process.
- ◆ Small increments applied in water is the most effective with drip irr. Very good. Foliar applied low biuret Urea is fastest and most efficient and up to 20 lb/ac of N can be used at one time with proper buffers or adjuvants.
- ◆ Plant Growth Regulators (PGRs) that regulate growth and promote fruiting.

PHOSPHATE is the most critical as it show root activity by P in the weekly sap (petiole) test.

- ◆ P applied to soil ties up before plants can get it. Research shows can be 80% lost.
- ◆ Small increments applied 5-10 day interval with proper adjuvants get up to 75% efficiency versus only 5-15 % applied early to soil.
- ◆ Plant only utilize up to 5 lb/ac P2 O5 per week at peak need, with much less early Weekly foliar application of 1-2 lbs/ac/wk can be highly effective but does not affect the sap flow from the roots which shows the urgent continued need.
- ◆ Many adjuvants improve P uptake by roots: Humic product, Multi-hormone (PGRs), Biologicals (soil inoculants), Energy (sugars/molasses), Vitamins, & etc.

POTASH is essential for quality, water use efficiency, disease resistance, etc. and needed in as Great amounts as Nitrogen, most in the fruiting stage – about 280 lbs/ac

- ◆ Can all be applied preplant broadcast as most cost effective. Foliar applications in small increments is also very cost effective at time of highest need, fruiting.

CALCIUM & BORON are very essential for pollination and fruit development with sugar (carbohydrates) and other photosynthates transport.

OTHER MINERALS AND MICRONUTRIENTS are also essential for balance.

ADJUVANTS (Growth aids) are highly cost effective!

PLANT GROWTH REGULATORS (PGR)

SUPPRESORS - Mepiquat Chlorides (original PIX) stops the whole plant.

MODIFIED MEPIQUAT with Boron or root hormones (kinetin) etc. ---

Maintain root activity.

STIMULATORS – Multi-hormones (as PGR IV – Now many) ---- Overall stimulators such as C-2, Volar, etc.

TRANSPORTERS – SUCH as Chaperone, etc.

INITIAL CROP INVESTMENT TAKES THE FIRST 90 days of growth to attain 2 bales/ac each additional 7 – 14 days can produce ½ bale/ac or more for much less COST per unit of yield thus lowering the over all cost of production.

THE POSSIBLE 5 bale / ac can produce cotton in the 20 cents/ lb range but it cost high inputs in all Best Management Practices especially plant nutrients & adjuvants that make costs less expensive.

TEAMWORK OF GROWERS, CONSULTANTS, SUPPLIERS AND AN EXPERIENCED LAB THAT Ask the Plant with a crop logging program can INCREASE RETURN ON INVESTMENTS.

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