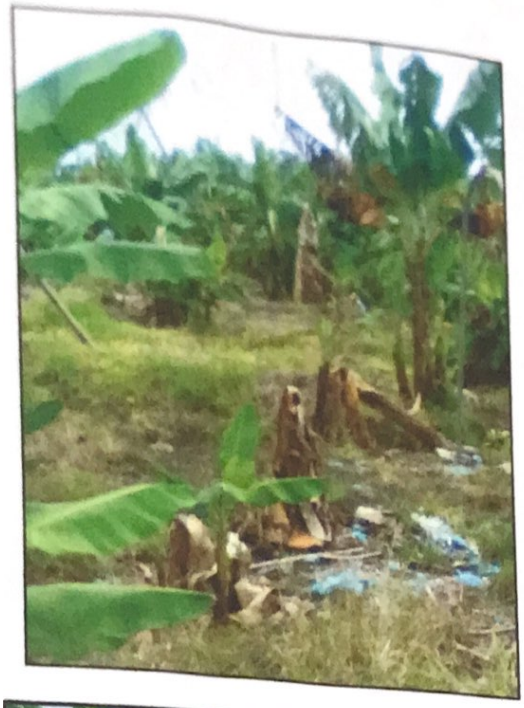
ANTICA FUSARIUM TRIAL

San Isidro, Bunawan District, Davao City

Trial Site



ANTICA FUSARIUM TRIAL

Set 1. Initial Pictures

(PLANT REENTRIES – May 2011 Taken June 27, 2011)

ANTICA FUSARIUM TRIAL

Set 1. TAKEN SEPTEMBER 27, 2011 4 Months After

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Set 2. FUSARIUM TRIAL OF PREVIOUSLY ABANDONED AREA DUE TO DISEASE INFECTION

(Planted: August 23, 2011, taken September 27, 2011)

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Set 2. TAKEN JANUARY 26, 2012 - 5 Months After Reentry

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t 2 – TAKEN FEBRUARY 02,2012 – 6 Months After Reentry

ANTICA FUSARIUM TRIAL

Areas directly adjacent to trial plots

PROGRESS REPORT (February 07, 2012)
ANTICA TRIAL AGAINST FUSARIUM WILT DISEASE OF BANANA
(Milagros Farm, San Isidro, Bunawan, Davao City)

BACKGROUND:

Fusarium wilt disease is a real threat to banana industry. The infected, devastated lost area is now fast increasing specially among the small banana growers with less financial capability to manage the disease. The soil borne fungal pathogen, *Fusarium oxysporum cubense* is the causal agent of the most virulent and potent strain, "Tropical Race 4". It is a known fact that so far there is no effective product that can treat infected sites to successfully replace the lost plant and survive.

Thus, search for effective product is now on the race to be integrated in the Fusarium management. ANTICA, a lactic acid based product manufactured by Ahcil Laboratories and known with bactericidal and fungicidal activities is worth to be evaluated against the disease hence this trial.

The trial site is a severely infected farm with overlapping infected standing cases uneradicated. There is no standard practice of treatment before replanting but only injection with glyphosate + formalin to detected infected cases and left to decay.

This trial is an initial and preliminary evaluation of ANTICA to explore its efficacy against the Fusarium wilt disease of Cavendish banana under field conditions.

OBJECTIVES:

1. To explore the efficacy of ANTICA at 5 ml./li. H_2O applied alone and in combination with other beneficial microorganism enhancing products against Fusarium wilt disease in Cavendish banana both in eradicated standing cases and in reentries of previously infected abandoned area.

2. To determine the effect of injection and drenching methods of ANTICA solution injected application at four (4) months after Reentry and monthly drenching thereafter.

METHODOLOGIES:

TREATMENTS

SET 1 – STANDING INFECTED CASES ERADICATED

3 REPLICATES / TREATMENTS

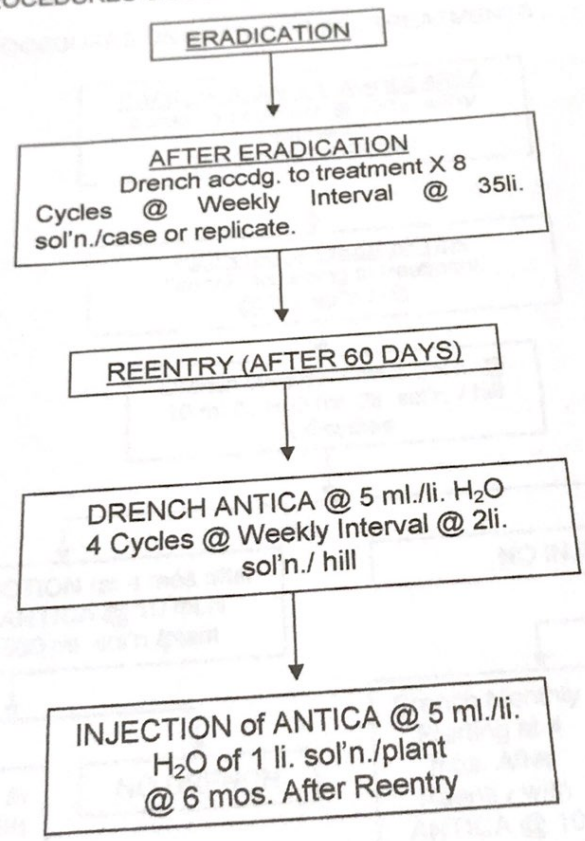
TREATMENT 1 – PURE ANTICA ALONE @ 5 ml./li. H_2O

TREATMENT 2 – ANTICA ACTIVATED + PURE ANTICA @ 5 ml./li. H_2O

TREATMENT 3 – ANTICA + SAMPI both @ 5 ml./li. H_2O

TREATMENT 4 – ANTICA BOKASHI @ 5 ml./li. H_2O

PROCEDURES UNIFORM FOR ALL TREATMENTS :



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SET 2 – REENTRIES ON PREVIOUSLY INFECTED ABANDONED (4 MONTHS FALLOWED) AREA

MAIN TREATMENTS : (40 Plants/Treatment)

TREATMENT 1 – PURE ANTICA @ 5 ml./li. H_2O

TREATMENT 2 – ACTIVATED ANTICA + PURE ANTICA @ 5 ml./li. H_2O

Sub – Treatments : (20 Plants each)

a – Injected at 4 mos. After Reentry

b – Not Injected

Sub-sub – Treatments : (10 Plants each)

X – Drench

Y – No Drench

PROCEDURES UNIFORM FOR ALL TREATMENTS :