

## INTENSIVE MAT-TO-MAT TREATMENT PROTOCOL

### DEFINITION:

The Intensive Mat-to-Mat treatment is the most rejuvenating approach of Shukaku-Riki treatment that involved weekly blanquette application incorporating FOC "Case to Case" Handling at the same time. This treatment aims to prevent the rapid spreading of FOC into to a wide scale area by promoting massive invasion of beneficial microorganisms suppressing FOC pathogens and to take care of all the retained followers from infected mother plants from vigorous recovery, boosting immune system and enabling them to produce packable bananas. This treatment approach ensures high probability of population stability and production recovery at reasonable operational cost. Intensive Mat-to-Mat treatment is highly recommended to the areas where FOC case occurrence is very high, rated and considered as hot spot areas and it is recommended to apply at least 3-4 months for fast soil rejuvenation.

### METHODOLOGY:

#### I. Preparation

1. Mixing rate of Shukaku-Riki is 15 ml in one (1) liter of water. Filled the spray tank (16 liters cap.) @ 240 ml total pure Shukaku /tank. For 200 liters (1 drum) of water mixing, dilute 3 liters of Shukaku.
2. Calibrate the knapsack sprayer's solution discharge to ensure that the necessary amount of solution would be exactly deliver to the plants.

#### II. Timing of Applications

Best to apply the solution during cool environment/ morning.

#### II. Treatment Procedures

1. Treat all uninfected mats within the whole subject area by drenching through spraying a 200 ml solution to the soil covering 2-3 ft radius from the base. Repeat the procedure at 7 days interval.
2. Treat the infected mat by drenching through spraying a 1- liter solution to the soil of the infected plant covering 2-3 ft radius from the base.
3. Cut the pseudo stem of the infected mother plant, retain at least man high of it without touching or eradicating the follower to save it as future production unit.
4. Chop the removed pseudo stem into 3 pieces including leaves and place all the debris on at least 1 meter distance from the retained follower.

5. Spray the 500 ml solution to all the debris and spray the 500 ml solution to the soil of infected plant covering 2-3 ft radius from the base.
6. Install appropriate identification tags onto the retained followers to easily monitor and identify them for the following treatments.

## **MAT-TO-MAT SPRAY WITH 200 ML SOLUTION TO ALL UNINFECTED BANANAS**



**FOR EVERY FOC INFECTED BANANA (CASE),  
DIRECTLY APPLY THE FOC "CASE TO CASE"  
HANDLING PROCEDURE ACCORDINGLY.**