

蓋喜滿於田間應用 之試驗結果報告



國內業務部 (賴怡靜 彙整)

蓋喜滿 水稻試驗

試驗：蓋喜滿與農民慣行法比較（傳統肥料）

時間：2016.7–2016.11

地點：中國湖南長沙縣黃花鎮魚塘村

- 施肥（藥）方式：
作物噴濕 450升/公頃 水量，以400, 600和800倍稀釋
- 施肥時間：
第一次：水稻抽穗前
第二次：第一次施肥後15天
- 對照組依照農民慣行法

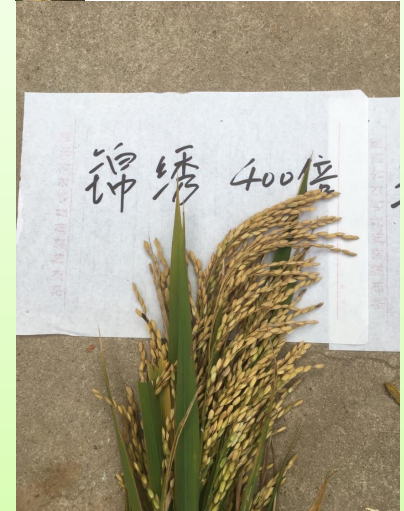
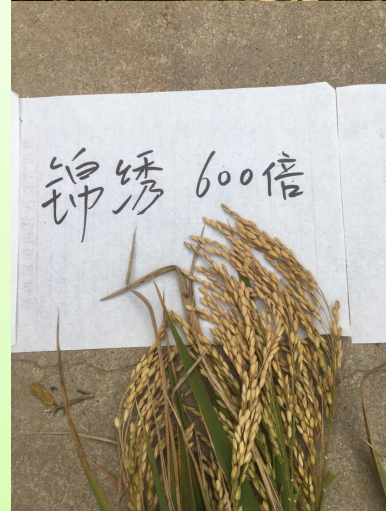
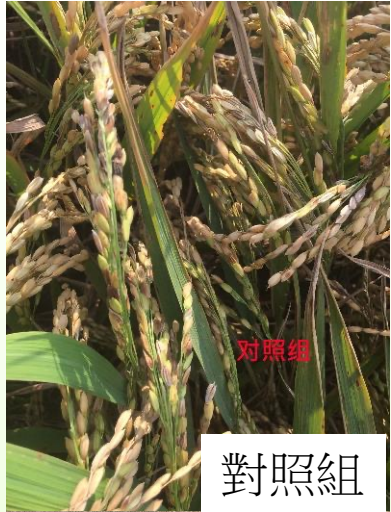
結果調查:

藥劑	稀釋倍數	第一次施藥後8天調查	第二次施藥後21天調查		產量 (Kg/亩)
		紋枯病防治率%	紋枯病防治率%	稻熱病防治率%	
蓋喜滿	400	48.1 Aa	78.6 Aa	53.7 Aa	464.7 Aa
	600	49.5 Aa	65.7 Aab	60.4 Aa	460.2 Aa
	800	41.7 Aa	48.0 Ab	51.9 Aa	420.2 Aa
6% 嘉賜黴素	600	36.4 Aa	40.3 Ab	29.7 Ab	413.5 Aa
慣行法 (對照組)	\	\	\	\	424.7 Aa



蓋喜滿 600倍

嘉賜徽素 600 倍



蓋喜滿400倍

蓋喜滿600倍

嘉賜黴素

對照組

錦綉 400倍

錦綉 600倍

春田寧素

C.K.



蓋喜滿 香蕉試驗

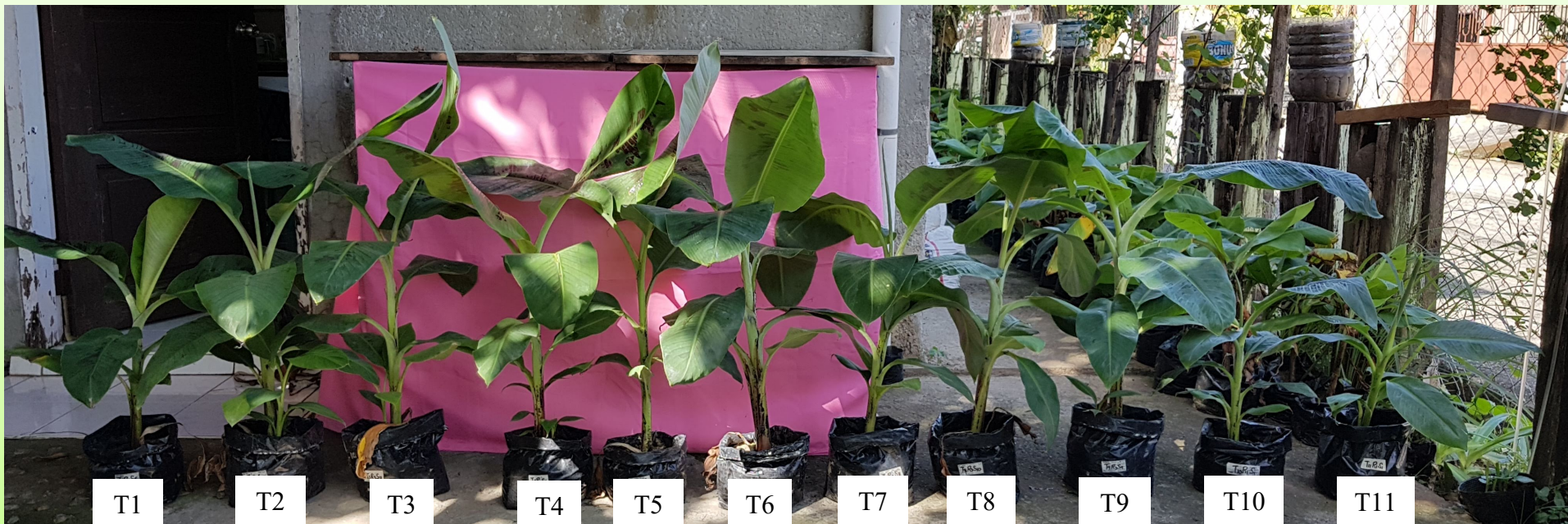
Fusarium oxysporum f. sp. *ubense* (Foc) Tropical race 4 (TR4) 2 to 5 x 10⁴ /gram dry soil infecting Cavendish Banana for 14 weeks

測試方式		稀釋倍數	施藥方式
T1	EMPOWER (蓋喜滿)	5 ml/Liter water	預防性施用, 施用五次 Preventive Control, 5 applications
T2		7.5 ml/Liter water	
T3		10 ml/Liter water	
T4		5 ml/Liter water	治療性施用, 施用六次, 間隔兩週一次 Curative Control, 6 applications @ 14 days interval
T5		7.5 ml/Liter water	
T6		10 ml/Liter water	
T7		5 ml/Liter water	治療性施用, 施用六次, 間隔方式第0, 2, 3, 5, 7, 7天一次 Curative Control, 6 applications @ different intervals 0, 2, 3, 5, 7, 7 days
T8		7.5 ml/Liter water	
T9		10 ml/Liter water	
T10	未施藥, 預防性觀察 (根系無傷口) Untreated Control Preventive Check (roots not wounded)		水 Water only
T11	未施藥, 治療性觀察 (根系有傷口) Untreated Control Curative Check (with wounded roots)		

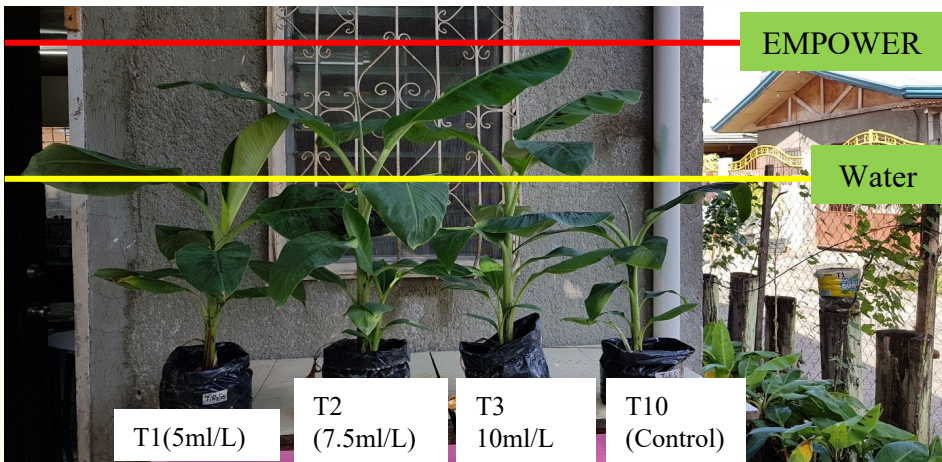
DATA TO BE GATHERED (2019–March–report)

- Percent *Foc* infection.** Monitor and examine sample plants every week and record the plants infected with *Foc* TR4. This will be done from the nursery for 3 months' time of observation.
- No. of days to Symptoms Appearance.** Plants showing yellowing of older leaves will be observed and recorded every week.
- Data Analysis.** All data will be statistically analyzed using SPSS.

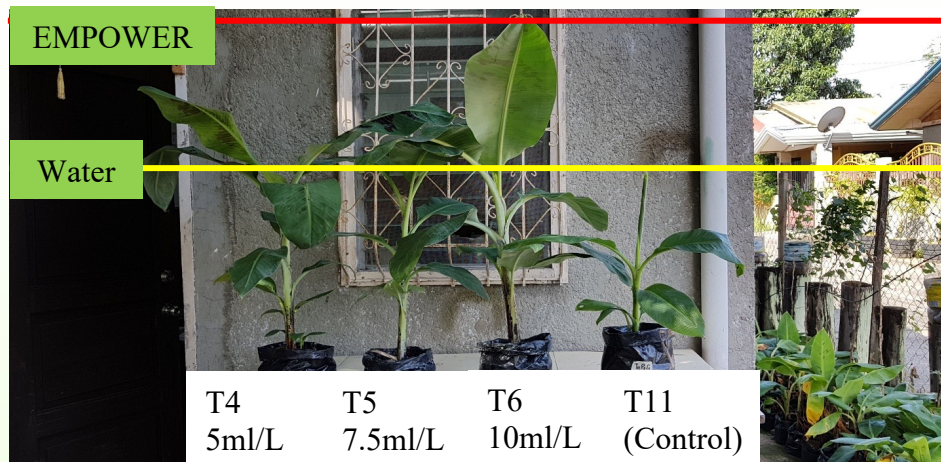
試驗處理效果比較



試驗處理效果比較



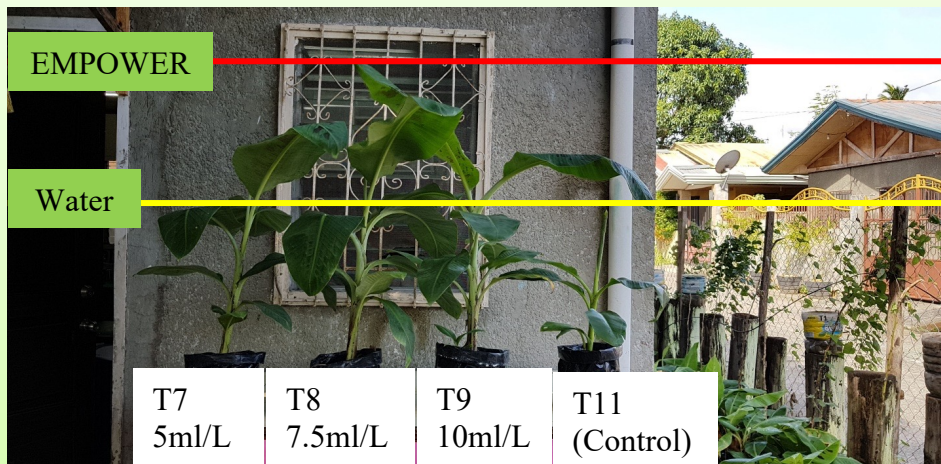
Preventive Control, before planting, planting, after plant 14 days



Curative Control, found symptom every 14 days

幼苗移植入大盆栽後(內含Foc-TR4- 10^4 族群量), 持續依據protocol方法進行EMPOWER處理, 可觀察到與未施用處理組別有相當明顯的差異(red/yellow line), 預防組理當發揮抑制病害發生效果, 但於發現病徵後施用製劑處理, 同樣也表現液置病害發生的效果

現象-病徵葉片會持續萎凋枯萎, 但會延緩甚至抵擋病勢持續發展, 同時可見新芽持續生出。



Curative Control, found symptom 0, 2, 3, 5, 7, 7 days

試驗組別橫切面觀察病勢侵入情形

