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### MAFAS LTD PAPAYA TECHPACK /GUIDE

\*At transplanting Deep Place 1 lb of 12-24-25 /plant (Mix 100 lbs 12-24-12 + 35 lbs Muriate of Potash)

\* All sprays/drenches should be done in cool afternoon

\* Use a mistblower from 3 weeks for best control of leaf hopper vector of Bunchy Top/

**Transplanting: applied as a drench at the base of the plant only. DO NOT APPLY OVER THE LEAVES**

**Diligent CT + Binder + X-tra Power + 10:55:10 Harvest More**  
15g/gall + 5ml/gall + 30 ml/Gall + 2tsp/gall

5-7 days later: **Bio-neem +X-tra Power+10:55:10 HM** applied as a spray over /drench at base of plant.  
10ml/gall + 5ml/gall + 30ml/Gall + 1TBSp/gall

7-10 Days Later: **Bioneem + Rotaprid + Nitro Plus + Vine Mix +10:55:10HM** applied as a spray drench

10ml/gall +10ml/gall + 15ml/gall + 15ml/gall + 2 Tsp/gall

**DAT-SOIL APPLIED ROOT FEED SP + 10:55:10** in Drip Circle Soil Drench using a knapsack  
2TBSp/gall (2lbs/barrel) + 1TBSp/gall(1 lb/barrel)

Apply in cool of afternoon (double rates when using a mistblower/gall)

7-10 DL: **Bioneem + Obulus + Diligent CT + Nitro Plus + Vine Mix + 10:55:10 HM**  
10ml + 3 ml/gall + 1TBSp + 20ml/gall + 20 ml/gall + 1 Tsp/gall

**3DL-SOIL APPLY ROOT FEED SP in Drip Circle Soil Drench using a knapsack/watering can**  
2TBSp/gall (2lbs/barrel)..Do not apply over plant. Excellent source of Calcium

7-10 DL: **Diligent CT + Bio-neem + Obulus + Nitro Plus + Vine Mix + Stimulate**  
1 TBSp/gall + 10ml/gall + 3ml/ gall + 20ml/ gall + 20 ml/gall + 5 ml/4 gall

**3 Days Later-SOIL APPLY ROOT FEED SP 2TBSp/gall(2lbs/barrel) + 10:55:10+ 1TBSp/gall(**  
**1lb/Barrel) in Drip Circle Soil Drench using a knapsack**

7-10 DL + **Bio-Neem + Rotaprid + Folizyme + Bioforge**  
15ml/gall + 5ml/gall + 20ml/gall + 10 ml/gall

7-10 DL: **Bio-Neem + Diligent CT + Folizyme**  
15ml/gall + 1 TBSp/gall + 20 ml/gall

7-10 DL: **Bio-Neem + Ixus + Stimulate + Nitro Plus + 5-10-27 Urea Mate**  
10ml/gall + 3 ml + 5ml/4gall + 20ml/gall + 1TBSp/gall

7-10 DL: **Bio-Neem + Diligent CT + Nitro Plus + 5-10-27 Urea Mate**  
15ml/gall + 1 TBSp/gall + 20ml/gall +1 TBSp/gall

7-10 DL: **Bio-Neem + Ixus + Sugar Mover + X-cyte + 5:10:27 HM**

10 ml/gall + 3 ml/gall + 15ml/gall + 5ml/gall + 1TBSp/gall

**Week 10:** **Bio-Neem + Rodazim + Flower Power + Sett + 5:5:45HM**  
15 ml/gall + 5 ml/gall + 20ml/gall + 30 ml/gall + 1TBSpml/gall

**Week 11** + **Bio-Neem + Binder + Rodazim + Xcyte + Sett + 5:5:45 HM**  
10ml/gall + 5ml + 10ml/gall + 5ml/gall + 1TBSp/gall

**Week 12** + **Bio-Neem + Impetu + Top Cop + Fruit Power + 5:10:27HM**  
15ml/gall + 11/2TBSp/gall + 15 ml/gall + 20ml/gall + 1TBSp/gall

**Week 13** **Bio Neem + Binder + Nitro Plus + Tree& Vine Mix + Stimulate**  
10ml/gall + 5ml/gall + 10ml gall + 20ml/gall

**Week 14** **Bio-Neem + Tantor +Flower Power + 5:10:27 +**  
15ml/gall + 10 ml/gall+ 20ml/gall + 1TBSp/gall

**Week 15** **Bio-Neem + Acaramik + Tree& Vine Mix + SETT +**  
10ml/gall + 10ml/4 gall + 30ml gall + 30 ml/gall

**Week 16:** **Bio-Neem + Tantor + Fruit Power + 5-10-27**  
15ml/gall +10ml/gall + 20ml/gall + 1TBSp /gall

**Week 17** **Bio-Neem + Acaramik + 5-10-27**  
10ml/gall + 10 ml/4 gall + 1TBSp/gall

**Week 18** **Bio-Neem + Tantor + Flower Power + 5-10-27**  
15 ml/gall + 10ml/gall + 10ml/gall + 10ml/gall

**Week 19** **Tree + Vine Mix + SETT + Bio-Neem + Rotazim**  
30ml/gall + 45ml/gall + 20ml gall + 10ml/gall

**Week 20** **Fruit Power + Bio-Neem + Obulus + Rotazim**  
30ml/gall + 20ml/gall +10ml/gall +10 ml/gall

**Week 21** **Tree + Vine Mix + SETT + Bio-Neem +Phytoguard K**  
45 ml/gall + 45ml/gall + 20ml gall + 10ml/gall

**Week 22** **Flower Power + 5:10:27 + Bio-Neem + Phytoguard K**  
30ml/gall + 1 TBSp/gall + 10ml/gall +10ml/gall

**Week 23** **Tree + Vine Mix + SETT + Bio-Neem + Phytoguard K**  
45ml/gall + 45ml/gall + 20ml gall + 10ml/gall

**Week 24** **Fruit Power + Bio-Neem + Top Cop**  
30ml/gall + 20ml/gall +20ml/gall +

**Week 25** **Tree + Vine Mix + SETT + Bio-Neem + Top Cop**  
45ml/gall + 45ml/gall + 20ml gall + 20ml/gall

**Week 26** **Flower Power + 5:10:27 + Bio-Neem + Phytoguard Ca**  
30ml/gall + 1TBSp + 20ml/gall + 10ml/gall

**Week 27** **Tree + Vine Mix + SETT + Bio-Neem + Phytoguard Ca**  
45ml/gall + 45ml/gall + 20ml gall + 10ml/gall

**Week 24** **Fruit Power + Bio-Neem + Phytoguard Ca**  
30ml/gall + 20ml/gall + 10ml/gall

- Week 25** Tree + Vine Mix + SETT + Bio-Neem + Phyton-27  
45ml/gall + 45ml/gall + 20ml gall + 20ml/gall
- Week 26** Flower Power + Bio-Neem + Phyton 27  
30ml/gall + 20ml/gall + 20ml/gall
- Week 27** Tree + Vine Mix + SETT + Bio-Neem + Diligent M CT  
30ml/gall + 30ml/gall + 20ml gall +
- Week 28** Fruit Power + Bio-Neem + Diligent M CT  
30ml/gall + 20ml/gall + 2TBSP/gall
- Week 29** Tree + Vine Mix + SETT + Bio-Neem + Diligent M CT  
30ml/gall + 30ml/gall + 20ml gall + 2TBSP/gall
- Week 30** Fruit Power+ 5: 10:27 + Bio-Neem + Phyton  
30ml/gall + 1 TBSp/gall + 20ml/gall + 20ml/gall
- Week 31** Tree + Vine Mix + SETT + Bio-Neem +  
30ml/gall + 30ml/gall + 20ml gall +
- Week 32** SETT + X-Cyte + Bio-Neem +Optional fungicide  
30ml/gall+10ml/gall +20ml/gall +
- Week 33** Tree + Vine Mix + SETT + Bio-Neem +Phyton-27  
30ml/gall + 30ml/gall + 20ml gall + 20ml/gall
- Week 34** Stimulate + SETT + Bio-Neem + Phyton  
10ml/4gall + 30ml/gall + 20ml/gall + 20ml/gall
- Week 35** Tree + Vine Mix + SETT + Bio-Neem + (Rotazim)  
30ml/gall + 30ml/gall + 20ml gall + 10 ml/gall
- Week 36** SETT + X-Cyte + Bio-Neem + Rotazim  
30ml/gall+10ml/gall +20ml/gall + 10 ml/gall

**SOIL APPLIED FERTILISER Programme** at the farmers discretion unless following a soil test recommendation but review of rates and intervals should lead to 25-30% reductions

Deep Place 1 lb starter 9-24-15 /plant 5 -7 DAT 50kg 12-24-12 + 30lbs Muriate of Potash

5-weeks later 3 oz 12-12-17+2 apply top dressed in Drip Circle

Every 5-6weeks later 4 oz 12-12-17+2 and thereafter apply top dressed in Drip Circle and or as needed

**Always maintain Bio-Neem or Neem-X** in the spray mixture consistently for continuous biological activity and repellent effect against Empoasca spp, the vector for Bunchy Top.

**NB: Excessive vegetative or uncontrolled growth( wide internodes)** suggest unbalanced nitrogen supply and uptake. Under these conditions apply **Nitrate Balancer** 10ml/gall + **X-cyte** 10 ml/gall especially in rainy conditions or **SugarMover** 20ml/gall. Double rate for Mist Blower applied.

**Anthraco nose control**

Impetu can be rotated with an alternate fungicides such as Xstrata, Rodazim or Diligent CT, MZ or CO ,Tantor and other suitable fungicides after 3-4 consecutive applications for broad spectrum control of Anthracnose etc. **Obulus**(or listed products) mixed with the Neem-X if a knock down control of white flies, aphids etc is required.

**NB: PRE TREAT ALL SPRAY WATER WITH STOLLER pH+**

- **Whenever flooding or extreme drought apply BioForge ASAP**
- **For extended dry periods the fungicides can be applied every 2 weeks. Weekly during rainy conditions for the control of Anthracnose, etc**
- **Remove diseased /old leaves AFTER THEY HAVE DRIED FULLY**
- **REMOVE DISEASED, DAMAGED FRUIT EARLY OUT OF THE FIELD**
- **Keep the field weed free especially during first 6mths**
- **Keep mistblower serviced and in good working order**
- **Sprays should be done very early in the morning or in the afternoon.**
- **Mistblower rates are used at 21/2 times knapsack rate**
- **Always apply Top Cop in the cool of the afternoon**

### **Weed Control;**

Avoid use of herbicides such as paraquat, glyphosate where possible. ZIBO can be used with a shield avoiding drift. If any damage or herbicidal effect apply BIOFORGE immediately @10ml/gall or 500cc/acre ensuring good coverage of the foliage

**NB:** The use of X-tra Power, Nitro-Plus, Sett, Bioforge, Stimulate, X-Cyte and Folizyme leads to more efficient use of soil applied fertilizer by the plant due to increased root growth and function. Soil applied fertilizer intervals will therefore need to be adjusted according to field experience, growth and plant vigour.

### **Irrigation:**

Adequate irrigation is critical for early fruit set and high, continuous yields. NB: Papaya is very sensitive to over watering/waterlogged soil conditions.

**Mist Blower** applications. Care must be taken to avoid spray damage to the fruits. Apply sprays with fine droplets # 2-21/2 orifice x 3/4 speed x suitable distance from trees. Avoid the use of wetttable powders and look out for precipitation in the spray mixtures due to in- compatability.

Products which can be mixed with Bio-Neem to obtain knockdown effect include

**Pyrethroids**( Obulus, Binder, Talstar

Miticides( Acaramik)

**Rotaprid**- Leafminer, Whiteflies, Empoasca

Bio-Neem and Neem-X can be used interchangeably

Suitable fungicides: Diligent CT, Diligent MZ, Diligent CO, Rodazim, Impetu, Tantor, Xstrata , Top Cop

NB:The above “teckpack” is a guide. Adjustments need to be made with changes in weather and other induced stresses

**Marcus Mycoo**  
**MAFAS LTD**  
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