

# a g r i c u r a

## Growing Farming Generations

### PRODUCTION GUIDELINES FOR 1 HECTARE OF TOMATOES JULY 2017

Seed requirements: Depends with the variety among other factors. Generally require about 150grams per hectare to achieve a plant population of 20 000 plants

Time of Planting: Tomatoes can be grown anytime throughout the year in frost free areas

Spacing: 1.5 - 2.0 m between rows and 0.3 - 0.5m within rows. Expected yield ranges from **40 - 100 tones/Ha** with Good Agronomic Practices (GAPS)

| Fertilizer requirements                 |                               | Product                        | Rate/ha   |  |
|---|-------------------------------|--------------------------------|---|--|
| Basal dressing:                         | Agricura Compound C<br>OR     | 5:15:12                        | 600kgs  | Generally recommended to apply all at or before transplanting your crop    |
| Basal dressing:                         | Agricura Blend/High C         | 6:28:23                        | 500kgs  | Generally recommended to apply all at or before transplanting your crop    |
| Top dressing:                           | Split apply Ammonium nitrate  | AN 34.5% N                     | 200kgs  | Split apply at 2-3 & at 5-6 WAP your crop using cup 5 per each application |
| Top dressing:                           | Split apply Calcium nitrate   | Calcium Nitrate                | 140kgs  | Split apply from early/medium fruiting stage onwards                       |
| Top dressing:                           | Split apply Pottasium Nitrate | Pottasium Nitrate              | 200kgs  | Split apply at flowering and at early fruiting stage                       |
| Soil conditioning + Calcium suppliment: |                               | Gypsum                         | 300kgs  | Generally recommended to apply all at or before transplanting your crop    |
| Top dressing:                           | Magnesium Sulphate            | Magnesium Sulphate             | 50-100kg  | Seek your Agronomist guidance  |
| Herbicides, Fungicides, Insecticides    |                               |                                |   |  |
| Problem                                 | Product                       | Application rate               | Application / comments  | Product for 1 ha   |
| Broad leaf weeds                        | Metribuzine/Sencor            | 1.0 - 1.5lt/ha                 | Apply as a post directed spray 14 days after transplanting        | 1.0 - 1.5lt  |
| Mainly Grasses                          | Metolachlor 960EC             | 1.3 - 1.5lt per ha             | Apply over the top of new plant trays within 7 days AT            | 1.3 - 1.5lt  |
|   | Trifluralin/Trif              | 1.1 - 1.6lt per ha             | Apply as a Pre-plant incorporated herbicide                       | 1.1 - 1.6lt  |
|   | Agil                          | 0.5 - 2.0 lt per ha            | Post emergent for annual & perennial grasses                      | 0.5 - 2lt  |
|   | Gallant Super                 | 0.6 - 2.4lt/ha                 | Post emergent for annual & perennial grasses                      | 0.6 - 2.4lt  |
| Nematodes<br>/Eelworms                  | Oxamyl/Nemat                  | 3.2lt/ha                       | Split apply at 2 and 3 - 4 weeks after transplanting              | 3.2lt  |
|   | Velum Prime                   | 0.4lt/ha                       | Apply cup 30 of the mixture/planting station at planting          | 0.4lt  |
|   | Solvigo                       | 0.6lt/ha                       | Dilute in 200 litres of water, apply cup 30 of mixture per plant  | 0.6lt  |
|   | Fernamiphos/Nemacure          | 12.5lt/ha                      | Dilute in 200 - 300 litres of water and apply cup no.30/plant     | 12.5lt   |
| White grubs                             | Imidacloprid 200SL            | 0.6lt/ha                       | Apply cup 30 of mixture/plant at planting                         | 0.6lt  |
| False Wireworms                         | Chlopyrifos 48EC              | 0.8lt/ha                       | Dilute in 200 litres of water. Apply cup no. 30 of mixture/plant  | 0.8lt  |
| Termites, Ants                          | Fipronil                      | 0.2lt/ha                       | Dilute in 200 litres of water. Apply cup no.30 of mixture/plant   | 0.2lt  |
| Cutworms                                | Decis forte                   | 60 ml/100 lt water             | Drench immediately at the base of plant with cup 30/plant         | 120mls   |
|   | Lambda cyhalothrin            | 100mls/100 litres of water     | Drench immediately at the base of plant with cup 30/plant         | 0.2lt  |
|   | Chlopyrifos 48EC              | 400mls/100 litres of water     | Apply cup 30/plant immediately after planting                     | 0.8lt  |
| Leaf miners                             | Thunder                       | 220 ml/100 lt water            | Dilute in 200 litres of water. Repeat as necessary                | 0.33lts  |
| White flies                             | Imidacloprid 200SL            | As above                       | As above  | 0.6 - 0.8lt  |
| Aphids, Hoppers                         | Dimethoate 40EC               | 0.5 - 0.8lt/ha                 | Dilute in 200 litres of water, repeat as necessary                | 0.5 - 0.8lt  |
| Sap suckers                             | Acetamidprid/Acetamark        | 15 grams/100 litres of water   | Apply in 200 litres of water at 10 -14 day intervals as necessary | 30grms   |
| White grubs                             | Thiamethoxam/Actara           | 280grams/100 litres of water   | Mix in 200 litres of bulk planting water apply up 30/plant        | 0.56kgs  |
| Thrips                                  | DDVP/Dichlorvos               | 100-500mls/100 litres of water | Dilute in 200 litres of water, repeat as necessary                | 0.1 - 0.5lts   |
| Semi loopers                            | DDVP/Dichlorvos               | 100-500mls/100 litres of water | Dilute in 200 litres of water, repeat as necessary                | 0.1 - 0.5lt  |
| Boll worms,                             | Thunder                       | 220mls/100 litres water        | Apply in 200 litres of water and repeat as necessary              | 0.33lts  |
| Beetles                                 | Carbaryl                      | 650grams/100 litres of water   | Apply in 200 litres of water and repeat as necessary              | 1kg  |

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| Problem                 | Product                       | Application rate                  | Application / comments  | Product for 1 ha |
|-------------------------|-------------------------------|-----------------------------------|---|------------------|
| Tomatoe Leaf            | Avaunt/Steward                | 125mls/100 litres of water        | Apply in 200 litres of water and repeat as necessary                  | 0.25lts          |
| Miners                  | Lannate/Methomyl              | 150grams/100 litres of water      | Apply in 250 ltrs of water & repeat as necessary                      | 0.3kgs           |
| (Tuta Absoluta)         | Emamectin + lufenuron         | 150grms/100 litres of water       | Dilute in 200 litres of water, repeat as necessary                    | 0.3kgs           |
| Boll worms              | Belt                          | 38mls/ha                          | Apply in 200 litres of water and repeat as necessary                  | 38mls            |
| Semi loopers            | Acephate                      | 650grms/ha                        | Dilute in 200 litres of water, repeat as necessary                    | 0.65kgs          |
| Leaf eaters             | Tracer/Spinosad 480SC         | 200 - 250mls/100 litres of water  | Dilute as indicated and apply as a full cover spray                   | 400-500mls       |
|                         | Runner/Methoxyfenozide 240SC  | 60mls/100 litres of water         | Dilute in 200 litres of water, repeat as necessary                    | 120mls           |
|                         | Emamectin + Thiamethoxam      | 150grms/100 litres of water       | Dilute in 200 litres of water, repeat as necessary                    | 0.3kgs           |
|                         | Cartap hydrochloride          | 400grms/100 litres of water       | Dilute in 200 litres of water, repeat as necessary                    | 0.8kgs           |
| Fruit fly               | GF120/Spinosad                | 1litre/29 litres of water/hectare | Apply coarse droplets. Consult Agronomist for guidance                | 1litre           |
| Botrytis                | Agricura Special Fungicide    | 50grms/100 litres of water        | Apply as a FCS at first signs of infection, repeat as necessary       | 0.1kgs           |
| Early & Late Blight     | Azoxystrobin                  | 250mls/100 litres of water        | Apply as a FCS before disease symptoms appear                         | 0.5lt            |
| Leaf spots              | Tebuconazole                  | 75mls/100litres of water          | Apply as a FCS as a preventative measure, repeat as necessary         | 0.15lt           |
| <b>Preventative</b>     | Copper Oxychloride            | 500grms/100 litres of water       | Repeat as necessary at 7 day intervals as a FCS                       | 1-1.5kgs         |
| <b>Measures:</b>        | Bravo/Chlorothalonil          | 1 litre/100 litres of water       | Apply as a FCS at 7-10 day interval when plants are 100mm tall        | 2lts             |
| Leaf moulds             | Dithane M45/Mancozeb          | 1kg/100 litres of water           | Apply as a FCS at weekly intervals, repeat as necessary               | 1.5kgs           |
| <b>Curative measure</b> | Metalaxyl + Mancozeb          | 350grms/100 litres of water       | Apply as a FCS, maximum of 4 sprays per season                        | 0.7 - 1kgs       |
| Powdery Mildew          | Agricura Special Fungicide    | 50grms/100 litres of water        | Apply as a FCS at first signs of infection, repeat as necessary       | 0.1kgs           |
|                         | Vegidust/AgriDust             |                                   | Dust freely, repeat at 7 day intervals                                |                  |
|                         | Cossan Wettable Sulphur       | 200grms/100 litres of water       | FCS at first sign of disease, repeat as necessary every 7 days        | 0.4kgs           |
| Red Spider Mites        | Mitac/Amitraz/Red Spider Kill | 750mls/100 litres of water        | F.C.S Repeat as necessary at 7 day interval                           | 1.5lt            |
|                         | Abamectin 1.8EC               | 280mls/100 litres of water        | Apply at first signs of infestation, repeat every 7 days if necessary | 0.56lts          |
|                         | Dicofol 18.5EC                | 220mls/100 litres of water        | Apply as F.C.S Repeat as necessary                                    | 0.44ltrs         |
|                         | Vegidust/AgriDust             |                                   | Dust plants thoroughly, Repeat at 7 - 10 day intervals                |                  |
|                         | Diazinon 30EC                 | 190mls/100 litres of water        | F.C.S Spray at first signs of infestation. Larvicide & Ovicide        | 0.38lts          |
| Will also control       | Malathion 50EC                | 120mls/100 litres of water        | Apply as a F.C.S Repeat as necessary                                  | 0.24lts          |
| Thrips & Hoppers        | Malathion 25WP                | 200grms/100 litres of water       | F.C.S Repeat if necessary at 7 day interval                           | 0.4kgs           |
| Soil borne fungi        | Thiram 80WP                   | 75grms per 50kgs of seed          | Seed dressing treatment   |                  |

Approximately 12.5 x 16 litre knapsacks will cover 1 hectare and apply 200 litres of water

**ALWAYS READ LABELS BEFORE USING THE PRODUCTS**

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