**SUSWE REPORT**

We shall be tackling 3 crops;

* Potatoes
* Tomatoes
* Maize

They are all high value crops that are grown both as stable crops and commercial crop.

Their production is however affected by various pest and diseases which if not controlled can cause huge yield losses. The most common include;

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| **PESTS** | **DISEASES** |
| White flies | Late Blight |
| Tuta Absoluta | Early Blight |
| Thrips | Ring rot |
| Aphids | Black leg |
| Nematodes |  |
| Fall army worm |  |

**Pesticides and fungicides to use**

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| **Pest** | Plant | **Pesticide** | Active Ingredient | Pre-harvest interval | Rate | Mode of action | Application window |
| Nematodes | T/P | velum |  |  | 8ml/20l | Contact | First 15 days |
| Cut worms | T/P/M | Voltage | lambdacyhalothrin | 4 days | 350ml/ha | Contact | 30 days from plating plus |
| Tuta absoluta | T/P | Nimbecidine | azadiractin | 2 days | 2.5l/ha | Systemic | Upon emergence |
|  | T/P | Belt | flubendiamide | 4 days | 5ml/20l | Larvicidal | Upon emergence |
|  | T/P | Indox | Indoxicab | 4 days | 0.25l/ha | Contact | Upon emergence |
|  | T/P | Escort | Amamectin benzoate | 8 days | 0.4l/ha | Systemic | Upon emergence |
| Fall army worm | M | Thurderstorm | betacyfluthrin | 42 days | 30 days | Contact | 28 days after crop emergence |
|  |  | Escort | Amamectin benzoate | 14 days | 0.4l/ha | Contact |  |
| American boll worm | M | tremor | batacyfluthrin | 30 days | 6kg/ha | Contact | 28 days after crop emergence |

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| **DISEASE** | plant | **FUNGICIDES** | Active ingredient | Pre-harvest interval | | Rate | Mode of action | Application window |
| Blights  Early/late | T/P | Ridomil | Metalaxyl+mancozeb | 15 days | 2.5l/ha | | Curative | Day 30-70 upon emergence |
|  | T/P | Bigo | dimethomorph | 8 days | 0.75l/ha | | Curative | Day 30-70 upon emergence |
|  | T/P | Daconil | chlorothalonil | 15 days | 1l/ha | | preventative | Day 30-70 |
|  | T/P | Equation pro | Famaxadone+cymoxanil | 4 days | 0.4kg/ha | | preventative | Day 30-70 |
|  | T/P | Miraz | propineb | 15 days | 2kg/ha | | Curative | Day 30-70 upon emergence |

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| Fertilizer | N.P.K composition | Time of application | Type of application | crop |
| D.A.P | 18.46.0 | During planting | On ground | T/P/M |
| Multi-n | 40.0.0 | After emergence/ 4 weeks after transplant | Foliar spray | P/T |
| C.A.N | 26.0.0 | First top dress | Ground | T/P/M |
| N.P.K | 17.17.17 | First top dress | Ground | T/P/M |
| Amco green | 5.0.60 | During flowering | Foliar spray | T/P |
| M.K.P | 0.52.28 | During flowering | Ground | T/P/M |
| Cano3 | N-15,cao 26 | Vegetative growth | Ground | T/P/M |
| Wuxal | 24.24.18 | Vegetative growth | Foliar spray | T/P |
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KEY

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| **P** | POTATOES |
| **T** | TOMATOES |
| **M** | MAIZE |