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Biological insecticide for control of tomato leaf miner larvae
(*Tuta absoluta*) on Tomato.

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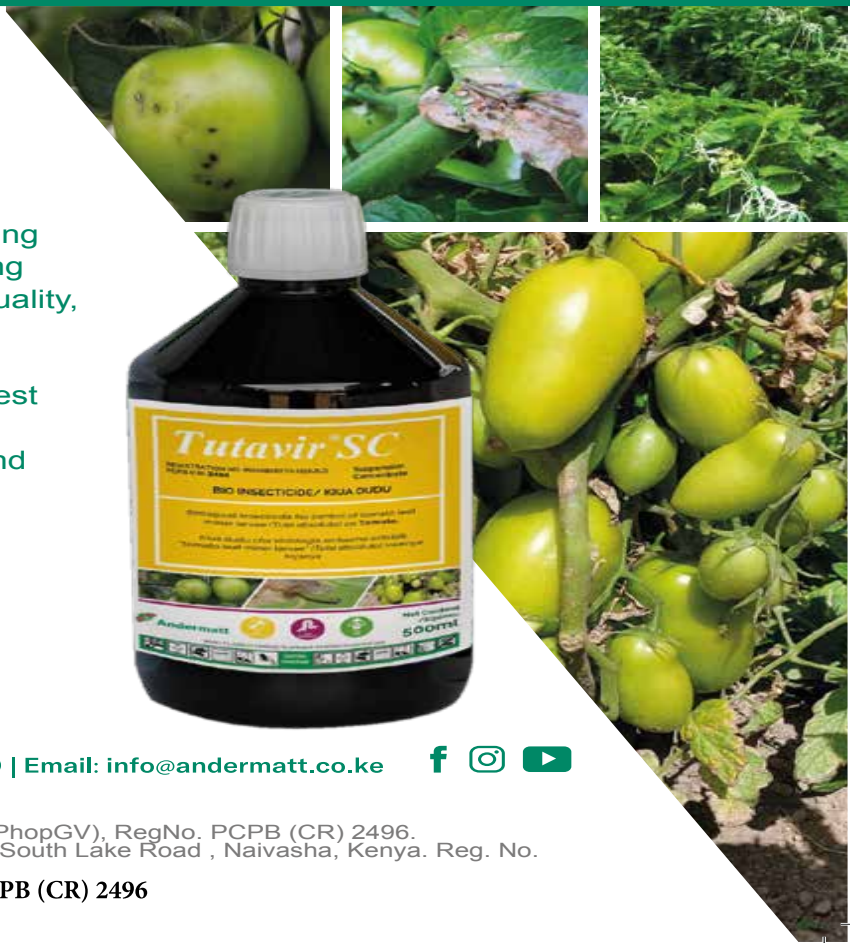
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Tutavir® SC contains *Phthorimaea operculella* granulovirus (PhopGV), RegNo. PCPB (CR) 2496.
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Reg. No. PCPB (CR) 2496



Tutavir® against tuta absoluta

Bio-Insecticide for efficient control of tomato leaf miner

In response to the need for new biological pesticides for tuta absoluta, Andermatt has developed an effective natural solution to the highly destructive pest that has tormented tomato farmers in Kenya for more than a decade.

Tutavir® SC, a Bio-Insecticide for the efficient control of tomato leaf miner (Tuta absoluta), is a Baculovirus with proven success on tomatoes in Kenya, a case of triumph of biocontrol.

Kenya tomato production is a vital part of East and Central Africa's agricultural economy, producing an estimated 590,000 tonnes for both the fresh and processing markets.

Tutavir® SC contains a Phthorimaea operculella granulovirus for effective and selective control of the tomato leaf miner. Having won the Bernard Blum award in 2019, Tutavir® SC has been fully registered in Kenya under Reg No: PCPB (CR) 2496.

Adoption and Trust in Baculoviruses

Despite the low prevalence of organic farming in Kenya, Tutavir® SC is increasingly being used in tomato Integrated Pest Management (IPM) strategies. Andermatt Kenya plays a crucial role in educating farmers about baculoviruses, their effectiveness, and their correct application. Kenyan farmers have had very positive experiences with established Andermatt baculovirus products such as Cryptex®SC - PCPB (CR) 1969 for control of false codling moth and Littovir® SC - PCPB (CR) 2500 for control of the fall army worm. Their successful efficacy has made them open to trying Tutavir® SC



Why use baculovirus products by Andermatt?

1. Unique mode of action

- Pest population reduction over time
- Excellent resistance management too

2. No residues and non-toxic

- Complies with IPM and organic production
- Maintain benefits of beneficial insects and pollinators in your field
- Safe for producer, consumer and the environment

3. Unique formulation

- High compatibility in tankmix with other products
- Good storage stability when cooled
- Good rainfastness

4. Science based

- Reliable high-quality product with proven efficacy in the field
- Broadest product range

5. Andermatt Group network

- Global expertise of biological experts
- Knowledge transfer within network
- Local support through subsidiary companies and partners in over 60 countries



What are the benefits of using a baculovirus?

Baculoviruses are naturally occurring insect specific pathogens that can be used for controlling certain types of insect pests. Baculoviruses are usually very specific and often control only one species of insect.

Baculoviruses that are used as biological control agents in Kenya have to be registered as plant protection products by PCPB that puts them under same stringent evaluations to demonstrate their safety and efficacy as the conventional chemical insecticides. Baculoviruses with approval for use can be used in integrated pest management programmes and on organically produced crops. They can be used alongside other forms of biological control, including macro biologicals, microbial products, mating disruption, pheromones and also in programmes with other plant protection products. Baculoviruses have a unique mode of action, belonging to IRAC Group 31, meaning that using them as part of plant protection programme is an excellent way to help prevent resistance developing to plant protection products and active ingredients.

Mode of action of baculoviruses

Baculoviruses contain high concentrations of virus particles, also known as virions. Each virus particle is surrounded by a protein matrix called the occlusion body which helps protect the virus from environmental conditions, such as UV. The occlusion bodies containing the virus particles are sprayed onto the leaves where the virus particles must be ingested by the larvae of the target insect in order to be effective. Baculoviruses have no direct effects on adults, eggs or pupae.

Once ingested, the occlusion bodies that surround the virus particles dissolve due to the highly alkaline environment in the larva's midgut. The infective part of the virus called the occlusion derived virus (ODV) is responsible for the primary infection in the midgut cells. Replication takes place in the nuclei of the midgut cells. Following the primary infection, cell to cell transmission occurs by the budded virus (BV). This is how the virus spreads throughout the insect's body. Towards the end of the infection cycle, larval host cells produce new occlusion bodies to help protect the virus once it gets released back into the environment when the insect dies. Once released from the insect, these occlusion bodies can then be ingested by other larvae which will lead to another virus infection.

How do baculoviruses provide population control?

As well as being able to cause a direct effect on larvae when ingested, baculoviruses can also provide population control due to either the horizontal effect, the fitness effect or the vertical effect.

The horizontal effect takes place after an infected larva ingests a lethal dose of the virus and dies and the virus is released back into the field, where other larvae feed on the virus particles that have been released from the dying insect, leading to further insect mortality.

Baculoviruses can also cause a fitness effect. This is when an insect ingests a sublethal quantity. The insect may not have enough virus to be controlled after ingestion at the larval stage, but this can lead to a reduction in pupation or egg hatching of the next generation.

Finally, baculoviruses can also spread via the vertical effect. Again, this can happen when a sublethal quantity of virus is ingested by the larva. The infected larva may not die from the virus, but the virus can get passed onto the insect's offspring. The next generation can carry the virus infection which can cause an outbreak after activation due to stress factors such as heat and disease.

All three of these effects; horizontal, fitness and the vertical effect ultimately provide population control of codling moth.

Timing of baculoviruses

The two main factors determining the time taken for larvae to die after becoming infected by baculoviruses are the dosage of virus ingested and larval stage of the insect. A higher dose of the baculovirus will ensure that the larvae will ingest a higher viral load, ultimately leading to quicker death. The other factor that will influence mortality rate is the larval stage of the insect. Younger larvae will be controlled more quickly than older larvae as the smaller larvae are more susceptible to the baculovirus. Quicker mortality helps reduce the amount of damage caused by the pest.



Baculoviruses contain high concentrations of virus particles, also known as virions.



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Media has a way of shaping a writer into an expert', not just in matters story telling but also a repository of knowledge. This mobile library of sorts is curved out of interaction with the real experts
Catherine Riungu

Growing flowers is not like planting waru!

One of my most memorable experiences as a journalist who has covered the flower industry for decades was sitting on live TV to discuss the challenges facing one of Kenya's top sectors- floriculture. Media has a way of shaping a writer into an expert', not just in matters story telling but also a repository of knowledge. This mobile library of sorts is curved out of interaction with the real experts- the technocrats, the investors, the managers, the policy makers, the lobbyists, development partners, the regulators and a cross-section of stakeholders in the value-chain. From the soil to the vase lie volumes of stories, many untold. Every chat gives a new story, a new perspective, always.

The youthful Citizen TV Kenya's Gold programme presenters asked many questions but I found one intriguing. Are farmers aware of the standards required by the international markets? My first response which never left my head was – do you think growing flowers is like planting waru (potatoes) or maize? I quickly remembered the two are our staple food crops and equally important in the country's agriculture economy and the technocrats would not take the joke lightly, especially coming from me, who should know better. We are struggling with decreasing productivity due to soil depletion. Hamish Ker, Andermatt Chief Executive Officer with whom I have worked with for many years wouldn't laugh with me, not after the much knowledge he has put in my head especially on soil health and how taking care of the life beneath our feet will determine food security in future. Andermatt has introduced biological plant health products, the latest being Tutavir, a biological enemy against the problematic Tuta Absoluta, a pest giving tomato farmers sleepless nights. As featured in this edition, latest research on the pest points to the need for new biological products to be used within an IPM framework, a position supported by Corteva Agrosience that has opened a biologicals line. The technocrats in that office, under the leadership of Joseph Anampiu would have run me out of print for the joke that never left my head.

Elgon Kenya Managing Director Bimal Kantaria, who I have had extensive in-depth discussions especially on policy and innovations would have wondered whether I am losing it, having covered almost every project his company, at personal level and his family has initiated to support food security. From the National Farmers Awards, Agriculture Sector Network to the Kantaria Agriculture Technology & Innovation Centre domiciled at the University of Nairobi College of Agriculture and Veterinary Sciences in Upper Kabete, it is clear the joke wouldn't have been funny!

Chrysal Africa General Manager Neils van Doorn, having added a new flower food on the Chrysal menu would probably have been the only one agreeing with me no flower farmer goes into this business without understanding the dos and don'ts of getting a top quality petal in the vase.

Kenya Flower Council Chief Executive Officer Clement Tulezi, who has found time despite his tight programme to sit with the Hortinews team to update on the menace of the false codling moth, a story we have covered in every edition of the magazine this year would have laughed at the joke, that I am sure.

I hope Chris Gasperi, Managing Director, Freshcrop and Wachira Kaguongo, CEO, National Potato Council don't read this, but if they do, I will send Fresh Produce Consortium of Kenya CEO Okisegere Ojepat to explain the joke.

Lastly, someone tell Muthomi Ernest he must include avocado in the menu of the Avocado Industry Excellence Awards or else...

Best wishes for 2025.

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EGG

Ovicidal activity: Eggs laid on sprayed surfaces will not hatch. Larvae often die immediately after hatching.

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Tracer® 480 SC
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Delegate® 250 WG
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ADULT

Reduces Moth fertility
& Fecundity
Kills if in direct contact
during application

Apply **Uphold™ 360 SC**
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PUPA

Kenya Flower Council CEO on FCM management progress



Clement Tulezi, CEO of the Kenya Flower Council (KFC)

By CHARLES MURIITHI

In a recent address, Clement Tulezi, CEO of the Kenya Flower Council (KFC), shed light on the major challenges currently facing Kenya's flower industry, focusing on the impact of the False Codling Moth (FCM).

Tulezi began by emphasizing that FCM, a pest affecting flower farms, was not a significant concern for the sector until 2018. It was then that the European Union (EU) officially classified FCM as a major issue for flowers, particularly roses, exported from Kenya. The decision triggered an increase in scrutiny over the presence of the pest in Kenyan flower exports. What began as a 5% inspection rate in 2018 quickly escalated to 10% in 2019, and has since grown to 25%. According to Tulezi, this rise in inspections suggests that the likelihood of FCM being present in exported flowers has become a serious concern.

In response to the growing issue, KFC has partnered with the Kenya Plant Health Inspectorate Service (KEPHIS) to address the threat using the "system approach"—a method of pest management. Tulezi revealed that KFC and KEPHIS are currently working together to compile a comprehensive dossier on the system approach, which they plan to present to the EU for approval. "We are committed to showing that we are taking this matter seriously," he said, stressing

the importance of collaboration and data-backed solutions to address the pest's impact.

Tulezi also highlighted the collective responsibility of all stakeholders within the flower industry's value chain. "Everyone has a role to play," he said, underscoring the importance of combined efforts to tackle challenges and ensure the sector's continued success.

Another positive development in the sector, Tulezi noted, is the introduction of the Pinnacle Awards. Launched recently, these awards recognize excellence and sustainability across various stakeholders in the flower industry. Tulezi shared that the awards are growing in both scale and prestige, with more farms being acknowledged for their efforts in sustainability and other key areas.

On the international stage, Tulezi spoke with pride about Kenya's increasing visibility at the International Floriculture Trade Fair (IFTF), an annual event that brings together the global flower industry. Kenya, which was once relegated to Hall C of the event, has now moved to Hall D—right at the entrance—ensuring that the country is in the spotlight during the fair. "This move places Kenya in the limelight, showcasing the country's leadership and innovation in the global flower industry," Tulezi remarked.

As the Kenyan flower sector navigates both challenges and milestones, Tulezi's leadership continues to drive efforts towards growth, sustainability, and international recognition.





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Controlling False Codling Moth (FCM) with Delegate 250 Wg

Biology of the FCM

The False Codling Moth, *Thaumatotibia leucotreta*, is a highly polyphagous pest, feeding on more than 50 plant species, mostly crops of economic importance. The pest has been spotted on export crops such as *Capsicum* spp, *Citrus* spp and *Rosa* spp. In the recent past the pest has become an increasingly important pest, necessitating more attention from a pest management point of view.

False Codling Moth (FCM) is a nocturnal pest with 1.25cm-2cm wings and colour variation. The eggs of FCM are laid singly or in small groups on the surface of the flower buds and the tender parts of the plants. Eggs are difficult to detect because they are flat and take same colour with the substrate. The pest has a 30-174 days lifecycle and can produce 2 to 10 generations in a year laying up to 800 eggs depending on multiple factors including temperature, food availability and quality, and humidity. Eggs hatch into larvae in 20-22 days. At maturity, the larvae exit from the fruit or flower buds and drop on the ground.

The stage likely to be detected during inspection is the larva, while in the field adult stages can be detected on traps. Larval stages are internal feeders in flower buds in the case of Roses. The larval stages are visually detected by use of a hand lens, usually done by looking out for symptomatic buds, which when opened small holes are observed in the bud where the larva has penetrated and exited the bud. Frass can also be observed protruding from the hole, larvae may migrate to the centre of the bud. The pupae then undergoes a metamorphosis to winged adults and the cycle restarts.



Pest management,

Cultural method:

- Remove all the unwanted affected plant parts.
- Keep the beds clean, free of plant debris. This would limit chances of Pupa stages hiding.
- Remove crown galls.

Biological method:

- Attract and Kill by use of pheromones
- Mating disruptors if available.

Chemical method:

Solution from Corteva Agriscience
Delegate 250 WG

DELEGATE 250 WG is the first registered FCM product on flowers in the market. The new kid on the block has a long heritage focused on offering complete solutions to the growers. The aim is to enrich the lives of producers and consumers, ensuring progress for generations to come. DELEGATE 250 WG is an insecticide belonging to the Spinosyns



Delegate™ 250 WG
Jemvelva™ active

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class and to Group 5 mode of action classification. DELEGATE 250 WG has improved potency at target site, improved residual control, improved translaminar activity and penetration through the plant cuticle, increased activity at the target site and is more stable in sunlight. It provides broad spectrum activity on key pests from Lepidoptera, Thysanoptera, Diptera and Coleoptera and other pests such as Pear Psylla and Asian Citrus Psyllid. It is also effective on whiteflies nymphs and has ovi-larvicidal activity when sprayed on eggs.

Due to its improved rain-fastness and photo-stability property with no breakdown in sunlight, the product has better weather resilience. It delivers exceptional, fast-acting activity within minutes to hours with a fast knockdown on contact toxicity. DELEGATE 250 WG is a unique product that is highly active at the target site in the pest's nervous system causing paralysis within minutes its effective through ingestion and contact making it difficult for the target pest to escape the activity of the product.

DELEGATE 250 WG with low impact on beneficial arthropods making it compatible with IPM programs. Its short environmental persistence and greater ingestion versus contact activity minimises impact on natural enemies. It has minimal impact on pollinators once the spray deposit has dried up. It is practically non-toxic to honeybees when spray has dried up. DELEGATE 250 WG is safe with minimal risk (if any) to predatory lacewings, ladybird beetles, predatory mites, and parasitic wasps.

Moreover, it is a valuable tool in resistance management, it has shown no cross resistance within existing chemistries of the IRAC groups."

With no phytotoxicity, no varietal sensitivity observed making it a suitable partner to be a mixed with most adjuvants when necessary, in addition to being compatible with commonly used Fungicides, Insecticides and Foliar Fertilizers.

The product won Presidential Green Chemistry awards in the USA, as well as AGROW award as Best New Crop Protection Product. It is also classified by EPA as a reduced risk pesticide. If properly utilised, DELEGATE 250 WG has the potential of further cementing Kenya's position as the leading flower exporter to the European markets.

To reduce the potential for resistance development we recommend alternation of DELEGATE 250WG with different Mode of Action actives recommended against control of FCM.





Kenya Flower Council member growers celebrate sustainability at inaugural floriculture Pinnacle Awards

By CHARLES MURIITHI

The Kenya Flower Council (KFC), in collaboration with Absa Bank Kenya and Royal FloraHolland hosted the first-ever Floriculture Pinnacle Awards on September 12, 2024, at Lake Naivasha Resort. This event brought together top industry leaders to celebrate outstanding achievements in sustainability and innovation within Kenya's floriculture sector.

The awards, designed to promote best practices that minimize environmental impact, were divided into three main categories; Environmental Impact, Social Impact, and Good Agricultural Practices, with a focus on inclusivity across farm sizes. Fourteen awards were presented, honoring exceptional contributions to sustainability and social responsibility.

Carzan KS and Rainforest Farmland were recognized with the Most Efficient Constructed Wetlands award for their innovative wastewater treatment solutions, while Red Lands Roses won the Best Sustainable Packaging award for their use of recyclable, biodegradable packaging.

“The awards, designed to promote best practices that minimize environmental impact, were divided into three main categories; Environmental Impact, Social Impact, and Good Agricultural Practices, ”

Sun Floritech and Wildfire Flowers received the Best Soil Health Management award for their practices that enhance soil fertility and biodiversity. In the employee welfare category, Timaflor Limited and Florensis Kenya Ltd were lauded for their commitment to workforce well-being, receiving the Best Employee Welfare Programs award.

The Best Community Partnership Program award went to Mount Elgon Orchards Ltd and Kisima Farm Limited for their initiatives in supporting local communities, while Sosiani and Kisima Farm Limited also took home the Best Organic Waste Management award for their innovative waste recycling practices.

The event concluded with Flamingo Horticulture (Kingfisher Farm), Kariki Juja Farm, Florencia Blooms Ltd being honored for achieving the Least Number of Non-Conformities during the Audit Process, demonstrating high compliance with KFC Silver FOSS standard.

The Floriculture Pinnacle Awards highlight the sector's commitment to sustainability, positioning Kenya's floriculture industry as a global leader in sustainable practices and innovation



Kisima Flowers General Manager Craig Oulton (left), receiving Gold Standard Award for their community projects and their outstanding efforts in waste material management.

Kisima fetches Gold at the Pinnacle Awards 2024

By CHARLES MURIITHI

Kisima Flowers, led by General Manager Craig Oulton, has recently earned recognition at the Pinnacle Awards, winning the Gold Standard Award for their community projects and their outstanding efforts in waste material management. Oulton highlights that Kisima is a “home of love,” where every employee is treated with respect and appreciation. The farm fosters a supportive, inclusive environment where no one feels out of place, contributing to a positive workplace culture.

Sustainability is at the core of Kisima's operations. Oulton explains that the farm places a strong emphasis on water conservation by building lagoons fed by springs from the neighboring water catchment areas. These lagoons serve as both a life-saving resource and a roosting ground for birds, while the water is naturally diverted downstream to benefit surrounding communities. This effort embodies Kisima's approach to sustainability, balancing environmental responsibility, community support, and business growth.

The farm also takes pride in its environmental initiatives, including the planting of tens of thousands of trees, with each tree assigned to a staff member, including board members, to cultivate a sense of pride and responsibility. Oulton further explains that sustainable flower cultivation involves careful consideration of local climate conditions, noting that some greenhouses at Kisima are taller than usual to aid in pest management.

Additionally, Kisima takes an innovative approach to waste management by collecting rejected roses and mixing them with microorganisms to create a powerful natural fertilizer known as the warm Juice. The farm ensures that its soil is properly nourished, emphasizing the importance of a healthy root structure for the best flower production. Oulton also mentions the use of Integrated Pest Management (IPM) techniques to control pests in greenhouses, helping the farm maintain a sustainable and productive operation.

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The farm also takes pride in its environmental initiatives, including the planting of tens of thousands of trees, with each tree assigned to a staff member, including board members, to cultivate a sense of pride and responsibility





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The Chrysal Rose Dip line-up has changed with the addition of new recipes. Next to the Original Rose Dip, we are officially including our Premium Fairtrade Rose Dip mixes and are welcoming the new Chrysal Eco Rose Dip and Chrysal Basic Rose Dip.

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For example, considering sea freight to the Middle East, based on our evaluation we can advise the Eco Rose Dip option to ensure maximum freshness on arrival at the best possible price point.

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*95% effectiveness. Test: two bunches with on the left side of each bunch untreated roses vs treated roses on the right side

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Understanding and managing FCM



By PAULINE RONO

Native to sub-Saharan Africa, the False Codling Moth (*Thaumatotibia leucotreta*) is a major agricultural pest. While detected in Europe and the United States, it has failed to become established outside its native range.

With a voracious appetite, the Moth's larvae devour a wide variety of crops. These include commercially important plants like citrus, red pepper, bullet chilli, avocado, pomegranate, guava, cotton, and maize. Due to the extensive damage, it causes, the moth poses a significant threat to Kenyan exports. This risk led the European Union (EU) to classify the False Codling Moth as a quarantine pest in 2017. Consequently, European countries now require inspections for 10% of roses imported from Kenya to safeguard against potential infestations.

Thriving in warm climates, this moth struggles when temperatures dip below 10°C. At this point, development slows, and survival rates plummet. Even colder temperatures below 1°C prove fatal for all life stages. Interestingly, infestations can fluctuate in severity from year to year. However,

”

Thriving in warm climates, this moth struggles when temperatures dip below 10°C. At this point, development slows, and survival rates plummet

”

ideal conditions – warm and humid environments – can lead to a remarkable five generations per year.

FCM goes through four distinct stages: egg, larva, pupa, and adult. Under the cloak of night (between 5:00 pm and 11:00 pm), female moths lay their eggs on the surface of fruits. These eggs hatch in 2-22 days, depending on the temperature. The hatched larvae, tiny and hungry, burrow into the fruit flesh, feeding and growing for 12-67 days based on weather conditions. The initial entry point may show some discolouration. After this feeding frenzy, the larva prepares for its next stage by spinning a cocoon in the soil. This cocoon, initially cream-coloured, eventually houses the pupal stage. Finally, a small, brownish-winged adult moth emerges, ready to continue the cycle.

Management

The False Codling Moth poses a serious threat to Kenya's economy. This is because it targets a wide range of valuable crops, including those that are crucial for our export earnings and Gross Domestic Product (GDP). To combat this destructive pest, a multi-pronged approach is necessary. This includes monitoring FCM populations, implementing cultural practices that disrupt their life cycle, utilizing biological controls like natural predators, and applying chemicals judiciously only when necessary.

1. Monitoring & Prevention

- **Regular Inspections:** Keep a watchful eye on your crops and fallen fruit. Look for signs of FCM damage or the presence of the moths themselves. Destroy any infested or damaged fruit promptly to prevent further spread.
- **Pheromone Traps:** These clever traps lure male FCM with attractive scents (pheromones). By monitoring the number of trapped moths, you can track population levels and detect infestations early, allowing you to take timely action.

2. Cultural Practices

- **Intercropping & Crop rotation:** Intercropping can be utilized as a push and pull measure to counter FCM. Planting different crops in the same location each season disrupts the FCM's ability to establish itself and find suitable hosts.
- **Attractant and Trap Crops (push and pull Technology):** Strategically plant fewer valuable crops that act as decoys, attracting

Cryptex[®]

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Cutting edge granulovirus technology for the suppression of False Codling Moth (FCM) on ornamental and horticultural crops.

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As partners of choice, Andermatt delivers the best biorational products, sourced both locally and globally along with expert technical guidance and support.



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Cryptex[®] contains *Cryptophlebia / Thaumotibia leucotreta* Granulovirus (CrleGV). Reg. No. PCPB(CR)1969. Andermatt Kenya Limited. Address: Two Lakes Business Park, Moi South Lake Road, Naivasha, Kenya. Reg. No. PVT-GYU2RYX.



THANK YOU

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NAIVASHA HORTIFAIR 2024



NATIONAL FARMERS AWARDS 2024



egg-laying female moths away from your main crop. Desmodium and Nappier grass are particularly efficient for managing pest populations using this method.

- **Pruning:** By pruning trees to improve air circulation and reduce humidity within the canopy, you create a less favourable environment for the moths to thrive.

3. Natural enemies (Biological control)

- **Egg Parasitoids:** A natural hero in citrus orchards is the FCM egg parasitoid, *Trichogramma cryptophlebiae*. These tiny wasps lay their eggs inside FCM eggs, effectively stopping the next generation of moths before they hatch. Commercially available releases of *Trichogramma* can significantly boost their numbers and combat infestations. Under ideal conditions, they can parasitize up to 80% of FCM eggs in a citrus orchard.
- **Predators:** Encourage the presence of natural predators like ants and birds in your orchard. These creatures can help keep FCM populations in check by feeding on the eggs and larvae.
- **Insecticides:** While biological controls are ideal, there may be situations where additional measures are necessary. In such cases, consider using biological insecticides approved for FCM control. Remember, consult with a qualified professional to choose the most effective and environmentally responsible option for your specific needs.

Examples of biopesticides include:

- **BACIGUARD 16 WDG** (Water Dispersible Granules), Reg. No. PCPB(CR)1238, a biological insecticide for controlling FCM in avocados.
- **HALT NEO 5% WP** (Wettable Powder), Reg. No. PCPB(CR)1959, is an insecticide for controlling FCM in sweet peppers.
- **CRYTRACK**, Reg. No. PCPB(CR)1860, is rubber impregnated with synthetic female *Cryptophlebia leucotreta* pheromone. It is used for monitoring and mass trapping of FCM in chilli peppers (for use with Delta traps and sticky paper).
- **FLOWER DUST**, Reg. No. PCPB(CR)2370, is an insecticide for controlling pupal and adult stages of thrips and FCM in roses.

4. Chemical Control

While a variety of chemicals are registered for use against FCM, they should be a last resort due to several drawbacks such as harm to beneficial insects and resistance development.

Integrated Pest Management (IPM) is Key in minimizing these risks and ensuring long-term control, remember to follow the IPM principles. IPM focuses on combining various control methods, prioritizing non-chemical approaches whenever possible.



If, after implementing other control methods, chemical intervention becomes necessary, remember these crucial points for effective control:

- **Consult a qualified professional:** Seek guidance from a pest control expert to choose the most effective and environmentally responsible insecticide for your specific situation.
- **Timely application:** The timing of insecticide application is critical for successful control. Ensure proper timing based on the expert's recommendations and the product label instructions.

Examples of chemical pesticides include:

- **AFIFEN 10.8% EC** (Emulsifiable Concentrate), Reg. No. PCPB(CR)1410, an insect growth regulator used for controlling FCM in roses.
- **LOCUS 150 WG** (Wettable Granule), Reg. No. PCPB(CR)2112, is an insecticide for controlling FCM in Capsicum.
- **AVOKING 200 SC** (Suspension Concentrate), Reg. No. PCPB(CR)1148-P(i), is an insecticide for controlling FCM in avocados.
- **OCCASION STAR 200 SC**, Reg. No. PCPB(CR)1553, is an insecticide for controlling FCM in tomatoes, watermelons, and chilli peppers.

For more products, detailed usage instructions, and information on where to find them, please visit the PCPB website at <https://www.pcpb.go.ke/crops/>.

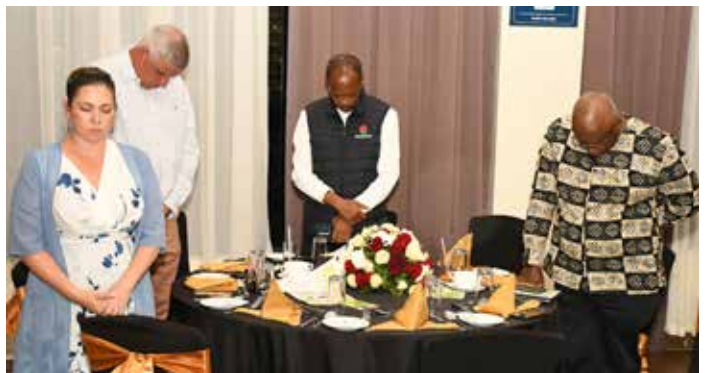
Once a minor pest, the False Codling Moth has become a significant threat to Kenyan agriculture. Its impact extends beyond damaging crops and reducing yields – it also hinders the export of valuable produce to key markets due to stringent quality control measures.

To safeguard the integrity of Kenyan plant exports, the Kenya Plant Health Inspectorate Service (KEPHIS) implemented stricter production standards. However, these standards, like requiring protected environments for certain crops, can be financially prohibitive for many small-scale farmers.

The answer is found in an integrated strategy. Cultural practices like field sanitation and fruit bagging offer promise. Biological control methods utilizing natural enemies are also being explored. Yet, the challenge of managing FCM within the constraints of reduced pesticide use on exported crops remains.

Further research and development are crucial to identify cost-effective solutions for smallholder farmers. Collaboration between researchers, policymakers, and farmers is essential to ensure Kenya's agricultural sector remains resilient in the face of evolving pest threats.

NATIONAL POTATO COUNCIL OF KENYA



ASNET AGRICULTURE SUMMIT 2024



Marginpar's constructed wetland: a sustainable solution for wastewater and biodiversity

By PRISCA MWANGI

At Marginpar Carzan Flowers (KS) Farm, sustainability is not a trend but a core operational value that drives every decision. One of the farm's most notable and innovative projects is its constructed wetland, a forward-thinking solution to wastewater management that has become an award-winning example of environmental responsibility.

The constructed wetland mimics the natural processes of wetlands, which historically have been recognized by ancient civilizations like the Egyptians and Sumerians for their importance in agriculture and ecological balance. This engineered system combines vertical flow beds, horizontal flow reed beds, and surface flow cells like ponds. Wastewater is filtered naturally through these systems, relying on gravity, microorganisms, and aquatic plants known as macrophytes to absorb harmful pollutants and nutrients.

Steve Muchangi, the ESG Domain Captain at Marginpar, describes how the wetland's design eliminates the need for energy-intensive mechanical systems. By utilizing gravity-driven processes, the system treats up to 60 days' worth of effluent without the use of pumps or other power-driven machinery. It is a self-sustaining system that not only purifies wastewater but also enhances local environmental health and biodiversity by providing a habitat for wildlife, including birds, aquatic life, and frogs.

The constructed wetland has delivered remarkable results. Studies have shown that wetlands can reduce pollutants by up to 80%, significantly improving the quality of water that returns to the ecosystem. For Marginpar, this means that treated water is cleaner and safer for local water bodies, benefitting surrounding communities and the environment alike.

Beyond water purification, the wetland has become a sanctuary for diverse species, supporting over 40% of the world's species of plants and animals. This boost in biodiversity is a testament to the wetland's health and highlights the crucial role such systems play in conservation. Additionally, the aquatic plants contribute to carbon sequestration, helping Marginpar reduce its carbon footprint and further enhance the farm's sustainability.



The constructed wetland mimics the natural processes of wetlands

The project also has a strong community focus. Local stakeholders have been trained in wastewater management, equipping them with valuable skills and fostering a shared sense of environmental responsibility. This knowledge sharing is extending beyond Marginpar, as the farm is encouraging other flower growers in the industry to adopt similar eco-friendly practices.

Creating the constructed wetland was not without its challenges. Limited land availability meant sacrificing a productive flower block to make space for the system, and navigating lengthy approval processes from the National Environment Management Authority (NEMA) and Water Resource Authority (WRA) added to the complexities. However, Marginpar's unwavering commitment to sustainability overcame these hurdles, and continuous training ensures that the system remains efficient and effective over time.

In 2024, Marginpar was honored with the "Most Efficient Constructed Wetlands" KFC Pinnacle Award, recognizing their leadership in sustainability. This accolade is just the beginning as the farm continues to share its expertise, setting an example for other industries to follow. Wetland restoration, including the use of constructed wetlands, is key to tackling global environmental challenges like climate change, water security, and biodiversity conservation.

For Marginpar, the constructed wetland is more than just a wastewater treatment solution—it is proof that sustainability can be integrated into business operations in a way that benefits the environment, the community, and future generations.

Agriculture Sector Network (ASNET)
Agrochemicals Association of Kenya (AAK)
Avocado Exporters Association of Kenya (AEAK)
Avocado Society of Kenya (ASOK)
Fresh Produce Consortium (FPC)
Fresh Food Exporters Association of Kenya (FPEAK)
Kenya Flower Council (KFC)
Kenya National Farmers' Federation (KENFAP)
National Potato Council of Kenya (NPCK)
Ethiopian Horticulture Producer Exporters Association (EHPEA)
Tanzania Horticultural Association (TAHA)

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0710447777
0721909935
0722406941
0722408210
0713516555
0721975146
0706335747
0712338633
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Mr.Philip Mutooni
Mr.Ernest Muthomi
Mr Okisegere Ojepat
Mr. Hosea Machuki
Mr.Clement Tulezi
Dr.Daniel Mwenda
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Info@fpeak.org
kfc@wananchi.com
dmailutha@kenaff.org
npck@npck.org
info@ehpea.org
info@taha.or.tz

| ORGANISATION | PRODUCT | CONTACT PERSON | PHONE | EMAIL |
|---------------------------|-----------------|----------------------|---------------------|----------------------------------|
| Dummen Orange | Flower Breeder | Mr.Steve Outram | +254-733-609863 | s.outram@dummenorange.com |
| Schreurs East Africa Ltd. | Flower Breeder | Mr.Haiko Backer | +254 203566135 | sales@schreurskenya.com |
| Wac International | Flower Breeder | Mr.Richard McGonnell | +254-722-810968 | richard@wac-international.com |
| Florensis Hamer | Flower Breeding | Mr. Eddy Verbeek | 020 50010 | verbeek@florensis.com |
| Interplant Roses | Flower Breeding | Mr.Gavin Mouritzen | +254-729-406668 | info@interplantea.co.ke |
| United Selections | Rose Breeder | Mr.JellePosthumus | +254-2-3656135 | jposthumus@united-selections.com |
| Solo Plant Kenya Ltd | Breeding | Mr. Tomer Weiss | +254 (0)715 631 373 | |

| ORGANISATION | PRODUCT | CONTACT PERSON | PHONE | EMAIL |
|-----------------------------|----------------------|-----------------------|------------------|------------------------------------|
| Florema(K) Ltd | Begonia | Mr. Perter Maina | 254-050-2021075 | |
| Carzan Flowers | Carnations | Mrs. Carol Manji | 254707110030 | info@carzankenya.com |
| Loldia Farm | Cut flowers | Mr. Gary | 0721 237936 | Iocland@bidii.com |
| Longonot Horticulture | Cut flowers | Mr. Shado rai | 254-050501473 | |
| Blue Sky | Cut flowers | Mr. Mike | 0720 005294 | info@blueskykenya.com |
| Indu Farm | Cut flowers | Mr. Wesley Koech | 0715 546908 | |
| Leekem Holding ltd. | Cut flowers | Mrs. Margaret Muthoni | 254-720-267004 | leekement@gmail.com |
| Rainforest | Cut flowers | Mr.Fabian Philippart | 0716 686998 | fphilippart@fleurafrica.com |
| Savannah Fowers | Cut flowers | Mr. Ignaitus Lukulu | 0728 424902 | i.lukulu@savannahinternational.com |
| Star flowers | Cut flowers | Mr.Dinkar | 0722 203750 | dinkar@vegpro-group.com |
| Subati | Cut flowers | Mr. Naren Patel | 0712 584124 | naren@subatiflowers.com |
| Wildfire Flowers | Cut flowers | Mr.Patrick Mbugua | 254-722-204669 | office@wildfire-flowers.com |
| Aquila Development Company | Cut flowers | Mr.Abhay Marathe | 254-722-205368 | info@aquilaflowers.com |
| Beauty Line | Gypsophila | Mr.Peter Gathiaka | 0722 676925 | |
| Hamwe Ltd. | Hypericum | Mr.Adrew Khaemba | +254722431170 | hamwe.production@kariki.biz |
| Sun Buds | Hypericum | Mr. Paul Kamau | +254 728339953 | sunbudsltd@gmail.com |
| Oserian Development Company | Rose & Fillers | Mary Kinyua | +254 721299008 | mary.kinyua@oserian.com |
| Oserian Flowers Limited | Carnations & Fillers | Mr.Hamish Ker | +254 722204701 | md@oserianflowers.com |
| Colour Vision Roses Ltd | Rose Breeders | Mr.Peter Vandemeer | 254-05050310 | petervandemeer@terranigra.com |
| Rift Valley Roses | Roses | Mr.Peterson Muchiri | 254-721216026 | |
| Van Den Berg Roses | Roses | Loek Van Adrichem | +31 6 31 791 898 | loek@bergroses.com |
| Aquilla | Roses | Mr.Yogesh | 050 506609 | info@aquilaflowers.com |
| Bigot Flowers | Roses | Mr.Jagtap K | 254-722205271 | jagtap.kt@bigotflowers.co.ke |
| Bila Shaka | Roses | Ms. Judith Zuubier | +25472 220 4489 | info@zuubier.com |
| De Ruiters | Roses | Fred Okinda | +254722 579204 | fred.okinda@deruiter.com |
| Finlay's Kingfisher | Roses | Mr. Charles Njuki | +254-724391288 | Charles.njuki@flamingo.net |
| Galaxy | Roses | Mr. Kiran | | kiran@vegpro-group.com |
| Groove | Roses | Mr.John Ngoni | 0724448601 | groovekenya@gmail.com |
| Harvest Flowers | Roses | Mr Phanuel Ochunga | 0722 506026 | phanuel.ochunga@gmail.com |
| Karuturi Flowers | Roses | Mr.Sylvester Saruni | +254 722873560 | henry.muller@karuturi.com |

| | | | | |
|--------------------------|-------------------|------------------------|-----------------|----------------------------|
| Kongoni Farm | Roses | Dinkar | 0728 608785 | dinkar@vegpro-group.com |
| Larmona | Roses | Fiona | 254 722 564 089 | fiona@lamornaflowers.com |
| Maridadi Flowers Ltd | Roses | Jack Kneppers | 07-33333289 | jack@maridadiflowers.com |
| Mbegu Farm | Roses | Mr. David Mousley | +254722 833 122 | mbegufarm@iconnect.co.ke |
| Nini Farm | Roses | Billy | 254 723 786 003 | billyc@niniltd.com |
| Shalimar Flowers (K) Ltd | Roses | Export Manager | 0722 811832 | info@eaga.co.ke |
| Stockman Rozen | Roses | Mrs. Sarah Tham | 0720 603990 | info@srk.co.ke |
| Twiga Roses | Roses | Mr.Pius Kimani | 0721 747623 | pius.kimani@gmail.com |
| Panda Flowers | Roses | Charkara | +254786 143515 | chakra@pandaflowers.co.ke |
| Finlay's Flamingo | Roses and Fillers | Mr.Peter Mwangi | +254 722204505 | peter.mwangi@flamingo.net |
| Colour Crops | Summer Flowers | | | |
| Esmeralda Breeding | Summer Flowers | Mr.Loui Hooyman | 31-297-385444 | info@esmeraldabreeding.com |
| Multigrow Investments | Summer Flowers | Mr.Peter Murimi Mbugua | +254-724-977259 | peter_murimi@yahoo.com |
| Kentalya | Cut Flowers | Mrs.Lynette | +254733 549773 | lynnette@kentalya.com |

NAIROBI: Altitude 5515 ft : Altitude 5515ft

| ORGANISATION | PRODUCT | CONTACT PERSON | PHONE | EMAIL |
|--------------------------|-------------|------------------------|-------------------|--------------------------------|
| Black Tulip Group | Cut Flowers | Mr.Mohan Choudhery | 254-722-825429 | info@blacktulipflowers.ae |
| Caly Flora Ltd. | Cut Flowers | Mrs.Catherine Gichungu | 254 725456930 | info@calyflora.co.ke |
| Everest Enterprises Ltd. | Cut Flowers | Mr.John Karuga | 254-722-720876 | jkaruga@everest.co.ke |
| Flora Delight | Cut Flowers | Mr.Marco Van Sandjik | 254-722-384188 | info@floradelightkenya.com |
| Particle Blooms Co. Ltd. | Cut Flowers | Mr.Caleb Amunga | 254-704-040101 | info@particleblooms.com |
| Phinna Flowers Ltd. | Cut Flowers | Mrs.Ruth Thuo | +254-723-582476 | phinnaflowers2014@gmail.com |
| Redhill Flowers | Cut Flowers | Mr.Isaac Bwire Ombunda | +254-702-34404 | redhillflowers@yahoo.com |
| Rose Bunk International | Cut Flowers | Mr.Nahashon Macharia | +254-773-754140 | nahashon@rosebunkintl.com |
| Sian Agriflora Ltd | Cut Flowers | Mr.Jos Van Der Venne | +254-725-961961 | info@sianroses.co.ke |
| The Flower Hub | Cut Flowers | Mr.Stephen Swainston | +254-722-509970 | info@theflowerhub.com |
| Tripple F. Agencies | Cut Flowers | Mr.Amos N. Wakiria | +254-735-405982 | wakiria@fagencies.co.ke |
| Van Kleef Kenya | Cut Flowers | Mrs.Judith Zuurbier | +254-722-364943 | judith@vankleef.nl |
| Winchester Farm | Cut Flower | | + 254-0722-203630 | info@mzurrieflowers.co.ke |
| Zaina Blooms | Cut Flowers | Mr.Michire Mugo | +254-736-080070 | zainablooms@gmail.com |
| Credible Blooms | Roses | Mr.Francis | 020 2102019 | info@credibleblooms.co.ke |
| Flamingo Flora | Roses | Mr.Sam | +254-721993857 | s.ivor@flamingoflora.co.ke |
| Karen Roses | Roses | Mrs.Juliana Rono | +254-722-717187 | sales@karenroses.com |
| Kreative Roses Ltd. | Roses | Mr.Bas Smit | +254 733501640 | info@kreative-roses.com |
| Lakshmi Group Ltd. | Roses | Mr. Serghei | +254 714551969 | serghei.lakshmigroup@gmail.com |
| Magana Flowers | Roses | Mrs Ann Gitari | +254-20-2017651 | marketing@maganafowers.com |
| Magnate Flowers | Roses | Mrs.Gladys Muthoka | +254-722-777051 | magnateflowers@gmail.com |
| Mzurrie Flowers | Roses | Mrs.Irene Njeru | +254-722-203630 | irene@winchester.co.ke |
| Shallimar Flowers Ltd | Roses | Mrs.Elizabeth Wahogo | +254-738-391832 | elizabethw@eaga.co.ke |

MT.KENYA: Altitude 6358 - 7057ft6358 - 7057ft

| ORGANISATION | LOCATION | PRODUCT | CONTACT PERSON | PHONE | EMAIL |
|--------------------------|----------|--------------------|-------------------------|------------------|------------------------------------|
| Mount Kenya Alstroemeria | Nanyuki | Cut Flowers | Mr.Edwin Van Der Veen | +254-718-240581 | info@mountkenyaalstroemerialtd.com |
| Bondet | Nanyuki | Erygium | Richard Fernandes | | |
| Kariki Limited | Nanyuki | Hypericum | | +254722 50 99 19 | info@kariki.biz |
| Live Wire Ltd | Nanyuki | Hypericum & Lilies | Mr.Esau Onyango | +254728 606872 | info@livewire.co.ke |
| Finlays Sirimon | Timau | Lilies | Ms.Purity Thigira | +254733606411 | puritythigira@finlays.net |
| Batian Fowers | Timau | Roses | Mr.G.Muriungi/Dirk Looj | +254720 102237 | dirk@batianflowers.com |
| Bloomingdale Roses | Timau | Roses | Mr.Sunil Chaudhari | +254732 373322 | sunil@bloomingdaleroses.com |
| Bogmack Farm | Timau | Roses | Mr.Anderson | +254722 350020 | kathendusn@yahoo.com |
| Equinox | Timau | Roses | Mr. Rod Jones | +254 722 204271 | rod.jones@equinoxflowers.com |
| Fides Kenya Ltd | Embu | Roses | Mr.Francis Mwangi | +254-06830776 | info@fideskenya.com |
| Lobelia Farm | Timau | Roses | Mr.,Peter Viljoen | +254-06241060 | |
| Lolomarik | Nanyuki | Roses | Mr. Topper Murry | +254715 727991 | topper@lolomarik.com |
| Protea Farm | Timau | Roses | Mr.Philip | | info@lobelia.co.ke |
| Sunland Roses | Timau | Roses | Mr.Peter Viljoen | +254-7020 95696 | sales@sunlandroses.com |
| Tambuzi | Nanyuki | Roses | | +254 -722 716158 | tambuzi.sales@tambuzi.co.ke |

| | | | | | |
|---------------|-------|----------------|-------------------|------------------|------------------------|
| Timaflo Ltd. | Timau | Roses | | | info@timaflo.net |
| Timau Flair | Timau | Roses | Mr.Philip Ayiecha | +254-723383736 | |
| Uhuru Flowers | Timau | Roses | Mr. Ivan Freeman | +254722863252 | ivan@uhuruflores.co.ke |
| Vegpro-K Ltd | Timau | Roses | Mr.Vivek Sharma | | vivek@vegpro_group.com |
| Kisima | Timau | Roses & Lilies | Mr.Martin Dyer | +254- 0722509830 | info@kisima.co.ke |

NAKURU: Altitude 6070ft : Altitude 6070ft

| ORGANISATION | LOCATION | PRODUCT | CONTACT PERSON | PHONE | EMAIL |
|---------------------------|------------|----------------|----------------------|-------------------|---------------------------------|
| Bliss Flora Ltd. | Nakuru | Cut Flowers. | Mr.Shivaji Wagh | +254-720-895911 | shivaniiket@yahoo.com |
| Carzan | Rongai. | Cut Flowers. | Francis | +254-0720 890920 | info@carzankenya.com |
| Kudenga Flowers | Mau Summit | Cut Flowers. | Mr.Joseph Juma | +254-0725 643942 | kudenga.fm@kariki.biz |
| Molo Greens Ltd | Molo North | Cut Flowers. | Mr.Justus Metho | +254-722-755396 | info@mologreens.com |
| Molo River Roses | Muserechi | Cut Flowers. | Mr.Alice Mureithi | +254-0724 256592 | andrewwambua@yahoo.com |
| Roseto Limited | Rongai | Cut Flowers. | Mr.Yogheesh | | farm.florenza@megaspingroup.com |
| Kariki Limited | Molo | Hypericum | | +254 722 50 99 19 | info@kariki.biz |
| Amor | Nakuru | Roses | Mr.Ketan Jerath | +254-738-119774 | flowers@xflora.net |
| Baraka Farm | Nakuru | Roses | Lucy | +254-0720 554106 | lucy@barakaroses.com |
| Buds&Blooms-Bliss Flora | Nakuru | Roses | Mr.Shivaji | +254-0720 895911 | shivaniiket@yahoo.com |
| Elbur Flora | Elburgon | Roses | Peter Kairu | +254-51343473 | eflora@africaonline.co.ke |
| Fontana Ayana | Nakuru | Roses | Mr.Gideon Maina | +254-0721178974 | gideon@fontana.co.ke |
| Fontana-Akina | Nakuru | Roses | Mr.Girish Appana | +254 722728441 | girish@fontana.co.ke |
| Kimman Roses Ltd. | Elburgon | Roses | Mr.Daniel Moge Maina | +254-721-734104 | kimmanexp@gmail.com |
| Mau Flora | Nakuru | Roses | Mahesh | +254-0787 765684 | mahesh@mauflores.co.ke |
| Milmet | Nakuru | Roses | Pravin | | pravinyadav.29@gmail.com |
| Omang-Africa | Nakuru | Roses | Mr.Inder Nain | +254 733724029 | flowers@xflora.net |
| Porini | Nakuru | Roses | Mr.Pitambar Ghahre | +254-0726 774955 | porini@isinyaroses.com |
| Pp Flora | Nakuru | Roses | Prakash | +254-0718 045200 | info@fantasy-flora.com |
| Preesman Kenya | Nakuru | Roses | Michael Kikwai | +254-0720574011 | kikwai1980@yahoo.com |
| Ravine Roses | Nakuru | Roses | Mr.Peter Kamuren | +254-0722 205657 | pkamuren@karenroses.com |
| Redwings | Kabarak | Roses | Mr.Sayer Simon | +254-0722 578684 | sayer@redwingltd.co.ke |
| Subati Flowers | Subukia | Roses | Mrs. Jennifer Sassi | +254 742 144493 | jennifer@subatigroup.com |
| Vankleef | Nakuru | Roses | Judith Zuurbier | +254-0722 364943 | judith@vankleef.nl |
| Xpression Flora Ltd. | Njoro | Roses | Mr.Mangesh | +254-0720 519397 | info@xflora.net |
| Sian Agriflora(Sian Roses | Nakuru | Roses/Lilies | Mr.Jos Van Der Venne | +254 722203630 | info@sianroses.co.ke |
| Jatflora | Gilgil | Summer Flowers | James Oketch | +254 724418541 | jatflora@gmail.com |
| Morop | Bahati | Summer Flowers | Wesley Tonui | +254-0720 983945 | XX |
| Flora Ola | Solai | | Mr.Wafula | +254-0708 382972 | floraolaltd@gmail.com |

THIKA -JUJA-KIAMBU: Altitude 5649 ft

| ORGANISATION | LOCATION | PRODUCT | CONTACT PERSON | PHONE | EMAIL |
|----------------------|----------|------------------|-----------------------|-------------------|-----------------------------|
| Zena Roses | Thika | Carnations,Roses | Mr.Rakesh | +254-724-631-299 | info@zenaroses.com |
| Selecta Kenya/Kpp | Juja | Cut Flowers | Mr.Wilson Kipketer | 020 352557 | w.keter@selectakpp.com |
| Pollen Sygenta Ltd. | Ruiru | Cuttings | Mr Daniel Kisavi | +254-733-603-530 | Daniel.kisavi@sygenta.com |
| Munyu Growers | Thika | Flowers | Mr.Muthom Ngaru | +254-721-956-307 | munyugrowers@gmail.com |
| Riverdale Blooms Ltd | Thika | Flowers | Mr.Antony Mutugi | 020 2095901 | rdale@swiftkenya.com |
| Kariki Limited | Thika | Hypericum | | +254 722 50 99 19 | info@kariki.biz |
| Transebel Ltd | Thika | Roses | Brian Wahome | +254 722 255322 | brianwahome@transebel.co.ke |
| Enkasiti Flowers | Thika | Roses | Mr.Thambe | +254 724722039 | enkasiti@gmail.com |
| Gatoka Farm | Thika | Roses | Christopher Gacheru | +254 733 619505 | chris@gatokaflowers.com |
| Penta Flowers Ltd. | Thika | Roses | Mr. Tom Ochieng | +254 733625297 | tom@pentaflowers.co.ke |
| Simbi Roses Ltd. | Thika | Roses | Ms.Pauline Nyachae | +254204448230 | Pauline@sansora.co.ke |
| Windsor Ltd | Thika | Roses | Mr.Pardeep | +254-0674208 | farm@windsor-flowers.com |
| Ever Flora Ltd. | Juja | Roses | Mr.Khilan Patel | 0675854406 | everflora@dmgroup.com |
| Kenflora | Kiambu | Roses | Mr.Aleem Abdul | +254-722311468 | info@kenflora.com |
| Valentine Kibubuti | Kiambu | Roses | Mrs. Suzan Maina | 0203542466 | info@valentineflowers.com |
| Red Lands Roses Ltd. | Ruiru | Roses | Mrs.Isabelle Spindler | +254-733-600504 | gm@redlandsroses.co.ke |
| Branan Flowers Ltd. | Thika | Roses | Mr.Brian Wahome | | |

| ORGANISATION | LOCATION | PRODUCT | CONTACT PERSON | PHONE | EMAIL |
|------------------------------|---------------|-------------|-----------------------|------------------|---------------------------------|
| Carnation Plants Ltd | Athi River | Carnations | Mr.E.Fieldman | +254-2045162 | evi@exoticfields.com |
| Waridi Ltd | Athi River | Roses | Mr.Pd Kadlag | +254-724407889 | kadlag@waridifarm.com |
| Harvest Flowers | Athiriver | Roses | Monicah | +254 722294963 | salesadmin@harvestflowers.com |
| Shade Horticulture | Isinya | Cut Flowers | Mr.Ashutosh Mishra | +254-0722 792018 | |
| Desire Flora K.Ltd. | Isinya | Roses | Mr.Rajaat Chaohan | +254 0724264653 | rajatchaohan@hotmail.com |
| Isinya Roses | Isinya | Roses | | +254 728 689 000 | info@isinyaroses.com |
| Maua Agritech | Isinya | Roses | Mr.Kori | +254-722206318 | gm@mauaagritech.com |
| P.J. Dave | Isinya | Cut Roses | Mr.Ananth Kumar | +254-729-405450 | marketing@pjdave.com |
| Maasai Flowers | Kitengela | Roses | | +254 714 065 245 | |
| Charm Flowers | Kitengela | Roses | Sales Manager | +254 733 753149 | admin@charmflowers.com |
| Maua Agri Tech Ltd | Kitengela | Cut Flowers | | 254 0722206318 | kori@mauaagritech.com |
| Rose Plant | Kitengela | Roses | Mr.Atenus | | |
| Sian Maasai Flowers | Kitengela | Roses | Mr.Andrew Tubei | 254-722728364 | atubei@sianroses.co.ke |
| Sian Roses | Kitengela | Roses | Mr.Jos Van Der Venne | 254-0202170540 | info@sianroses.co.ke |
| Afriscan Kenya Ltd. | Kiserian | Cut Flowers | Mr.Charles Mwangi | 254-722-711925 | charles.mwangi@afiscan.co.ke |
| Kordes Roses East Africa Ltd | Masai West Rd | Roses | Mr.Christian Meuschke | 254-0733 363642 | info@kordesroses-ea.com |
| Ngong Roses | Ngong | Roses | Mr. Charles Maina | 020 2700660 | ngongroses@capstoneonline.co.ke |

LIMURU-RUMURUTI-OLKALAU: Altitude 6024-7802 ft

| ORGANISATION | LOCATION | PRODUCT | CONTACT PERSON | PHONE | EMAIL |
|------------------------|-----------------|----------------|---------------------------|-----------------|-----------------------------|
| Tropiflora | Limuru | Carnations | Mr. Krasensky | 254 0724646810 | |
| Leekem Holdings Ltd | Nyandarua | Cut Flowers | Mrs.Margaret Muthoni | 254-0720 267004 | leekement@gmail.com |
| Tegmak Bloom | Nyandarua | Cut Flowers | Mr.Edward Kaguchu | 254-722-292242 | tegmakbloomsLtd@gmail.com |
| Highlands Plants | Olkalau | Cut Flowers | Mr. Leonard Kanari | 254-0721345829 | sales@highlandplants.co.ke |
| Aaa Roses | Rumuruti | Cut Flowers | Ms.Jennifer Sassi | 254-20-4453970 | sales@aaagrowers.co.ke |
| Terrasol | Limuru | Cuttings | | 254-0722 455996 | |
| Black Petals Ltd. | Limuru | Roses | Mr.Nizra Junder | 254-0722848560 | nj@blackpetals.co.ke |
| Elbur Flora | Elburgon | Roses | Peter Kairu | 254-51343473 | eflora@africaonline.co.ke |
| Kimman Roses Ltd. | Elburgon | Roses | Mr.Daniel Moge Maina | 254-721-734104 | kimmanexp@gmail.com |
| Suera Flowers Limited | Nyahururu | Roses | Mrs.Peris Wambui Mureithi | 254-724-082797 | perismureithi@yahoo.com |
| New Hollands Flowers | Olkalau | Roses | Mr. Francis | 254-0700718570 | |
| Golden Tulip | Olkalau | Roses | Umesh | 254-0739729658 | |
| Mahee Flowers Ltd | Olkalau | Roses | Vijay Kumar | 254-020822025 | info@eaga.co.ke |
| Africa Blooms | Rumuruti | Roses | Samir Chandokrkar | 254-0735-384552 | |
| Primarosa Flowers | Nyahururu | Roses | Mr.Vishal Metha | 254-734-88223 | mvishal@primarosaflores.com |
| Flora Delight | Limuru | Summer Flowers | Mr.Hosea Andanyi | 254-0724373532 | hosndai@yahoo.com |
| Kemaks Blooms Limited | Aberdare Ranges | Summer Flowers | Mr.Peter Gakuna | 254-792-705160 | kemaksblooms@gmail.com |
| Hatabor Rainbow Blooms | Limuru | Cut Flowers | Mr.John Ndungu | 254-07213850959 | |

KERICHO-ELDOROT-KITALE: Altitude 6060-6995 ft

| ORGANISATION | LOCATION | PRODUCT | CONTACT PERSON | PHONE | EMAIL |
|----------------------------|----------|-------------|-------------------|------------------|-----------------------------|
| Maji Mazuri | Eldoret | Roses | | +254 722 203631 | info@mzurriefflowers.co.ke |
| Zena-Asai | Eldoret | Roses | | +254 722 935 798 | info@zenaroses.com |
| Zena-Sosiani | Eldoret | Roses | | +254 722 935 798 | sales@zenaroses.co.ke |
| Equator Flowers | Eldoret | Roses | Mr.Charles | 254-0721 311 279 | cmutemba@sianroses.co.ke |
| Sirgoek Flowers | Eldoret | Cut Flowers | Mr.Andrew Kosgey | 254-0725 946429 | sirgoek@africaonline.co.ke |
| Finlay Chemirel | Kericho | Roses | Mr.Aggrey Simiyu | 254- 0722601639 | aggrey.simiyu@finlays.co.ke |
| Finlay Lemotit | Kericho | Cut Flowers | Mr. Richard Siele | 254-0721 486313 | richard.siele@finlays.co.ke |
| Mount Elgon Orchards Ltd | Kitale | Roses | Bob Andersen | 254 0735330592 | info@mtelgon.com |
| Panocal International Ltd. | Kitale | | | | |

GROWERS IN UGANDA

| NAME | PRODUCT | LOCATION | CONTACT PERSON | PHONE | EMAIL |
|---------|---------|----------|----------------|-------------|-------------------------------|
| Rosebud | Roses | Wakiso | Ravi Kumar | 0752 711781 | ravi.kumar@rosebudlimited.com |

| | | | | | |
|-------------------|--------------------|-----------------------|--------------------|----------------|----------------------------|
| Maiye Estate | Roses | Kikwenda Wakiso | Premal | | premal@maiye.co.ug |
| Jambo Flowers | Roses | Nakawuka Sisia Wakiso | Patrick Mutoro | (254)726549791 | pmutoro80@yahoo.co.uk |
| Pearl Flowers | Roses | Ntemagalo Wakiso | Raghibir Sandhu | 0772 725567 | pearl@utlonline.co.ug |
| Aurum Flowers | Roses | Bulega-Katabi Wakiso | Kunal Lodhia Shiva | 0751 733 578 | kunal@ucil.biz |
| Eruma Roses | Roses | Mukono | Kazibwe Lawrence | 0776 049987 | kazibwe@erumaroses.com |
| Uga Rose | Roses | Katabi Wakiso | Grace Mugisha | 0772 452425 | ugarose@infocom.co.ug |
| Kajjansi | Roses | Kitende Wakiso | K.K Rai | 0752 722128 | kkrai@kajjansi-roses.com |
| Uganda Hortech | Roses | Lugazi Mukono | Hedge | 0703 666301 | mdhedge@mehtagroup.com |
| Fiduga | Chrysanthemums | Kiringente, Mpingi | Jacques Schrier | 0772 762555 | j.scherier@fiduga.com |
| Royal Van Zanten | Chrysanthemums | Namaiba Mukono | Jabber Abdul | 0759 330350 | j.abdul@royalvanzanten.com |
| Wagagai | Impatiens-Poinstia | Iwaka Bufulu Wakiso | Olav Boender | 0712 727377 | olav@wagagai.com |
| Xclusive Cuttings | Chrysanthemums | | | | |

GROWERS IN ETHIOPIA

| NAME | PRODUCT | LOCATION | CONTACT PERSON | PHONE | EMAIL |
|----------------------|-------------------|-------------|-------------------|------------------------------|------------------------------------|
| Linssenn Flowers | Roses | Holeta | Peter Benders | 0757 777700 | pbenders@xclusiveuganda.com |
| Hansa flowers | Roses | Holeta | Peter Linsen | 01133205668 | elinsenroset@ethionet.et |
| Alliance Flowers | Roses | Holeta | XX | +251-912507815 I | nfo@hansaflowers.com |
| Ethio Dream Rishi | Roses | Holeta | M.s Navale. | 0116184341 | navele@nehainternational.com |
| Holeta Roses | Roses | Holeta | Hadida mohammed. | 011 23 72335 | holeta@jittuhorticulture.com |
| Supra Flowers | Roses | Holeta. | Kaka shinde. | 0116184341 | navele@nehainternational.com |
| Agriflora | Roses | Holeta | M.Askokan | 0911 353187 | kakashind@rediffmail.com |
| Ethio-Agricerft | Roses | Holeta | Alazar. | 0922 397760 | flowers@ethionet.et |
| Addis Floracom P.L.O | Roses | Holeta | Kitema Mihret | 0910 922 312 | alazar@yahoo.com |
| Enyi-Ethio | Roses | Seбата | Teshale | 0912 264190 | tasfaw@addissflora.com |
| Lafto Roses | Rosees | Seбата. | Mr Gerald | 0911 464629 | enyi@ethionet.et |
| Eden Roses | Roses | Seбата | | 0115541485,0911202217. | laftoroses@ethionet.et |
| Ethio-Passion | Roses | Seбата | | 0116461443,0111572130 | ethiopassion @ethiopassion.com |
| Golden Rose | Roses | Seбата | Sunil | 0111561572 | gomba@ethionet.et |
| E.T Highlands | Roses | Seбата | Tim Harrap. | 0114669971. | gombaf@ethionet.et |
| Sharon Flowers | Roses | Seбата | | 0911 502147 | bnf2etf@ethionet.et |
| Selam Flowers | Roses | Seбата | Mr. Panda Rajan. | 0112130595 | saronfarm@ethionet.et |
| Joy Tech | Roses | Debra Zyeit | | 0911749181 | |
| Dugda Froliculture | Roses | Debra Zyeit | Sayalfe Adane | 0911210128 | general@dugdaflora.com.et |
| Minaye Flowers | Roses | Debra Zyeit | Eyob Kabebe | 0911 504893 | minayefarm@ethionet.et |
| Bukito Flowers | Roses | Debra Zyeit | Anteneh Tesfaye | 011-9728667/8/9 | |
| Olij Flowers | Roses | Debra Zyeit | XX. | 0911 615571 | Info@olijethiopia.com |
| Yassin Flowers | Roses | Debra Zyeit | Tesfaye Gidisia | 0911 507229 | kamevision@yahoo.com |
| Z.K Flowers | Roses | Debra Zyeit | Mr.Zelalem | 0911 897856 | kflowers@ethionet.et |
| Friendship Flowers | Roses | Debra Zyeit | Edwin | 0116610798. | friendship.flowers@yahoo.com |
| Evergreen Farm | Roses | Debra Zyeit | Hiwot | (251) 911304967 | Hiwot.Ayaneh@yahoo.com |
| Rainbow Colours | Roses | Debra Zyeit | Ato Makonnen | 0912 125065 | rainfarm@ethionet.et |
| Sher | Roses | Ziway. | XX | 0116461105. | Info@sherethiopia.com |
| Braam Farm | Roses | Ziway | Ben Braam | 0464413602 | contact@braamroses.com |
| Sher Koka Farm | Roses | Ziway | Alemitu Biru | 0920 746270 | |
| Ziway Roses | Roses | Ziway | Ermias Solomon | 0912 097824 | ermiasziwayroses@yahoo.com |
| Herbug | Roses | Ziway | Hubb | 0921 094373 | hubb@herbugroses.com |
| Aq | Roses | Ziway | Wim | 0114414279 | wimjr@aqroses.com |
| Margin Par | Hypericum | Ziway | Hayo Hamster | 0464414277 | marginpar@ethionet.et |
| Tal Flowers | Gypsophila | Ziway | | 251 911505845 | tal@ethionet.et |
| Ewf Flowers | Hydragium | Ziway | Mr. Edwin | 0116517394. | production-manager@ewf-flowers.com |
| Red Fox | Pelargoniums | Ziway | | 0911508860 | g.symondson@ethionet.et |
| Abssinia Flowers | Hypericum | Ziway | Sendafa | 0115514966 | abssiniaflowers@yahoo.com |
| Ethiopia Cuttings | Geraniums | Koka | | 0115540368 | ethiopiacutting@ethionet.et |
| Florensis Ethiopia | Buding Plants | Koka | Netsanet Tadasse | 0116633073. | flrensis@ethionet.et |
| Maranque | Crysanthemums | Merjetu | Mark Drissen | 0116525556. | md@maranqueplants.com |
| Freesia Ethiopia | Freesia & Statice | Seбата | Ronald Vijverberg | (251) 221190750 | freesia@ethionet.et |
| Yelcona | Hypericum | Seбата | Andreas | (251) 115156259 | |
| | | | 0921 146930 | Andreasndieolens@hotmail.com | |

FRUITS, HERBS AND VEGETABLE FRUITS IN KENYA

| COMPANY | LOCATION | PRODUCT | CONTACT PERSON | PHONE | EMAIL |
|------------------------------------|----------|--------------------------|--------------------------|-------------------|---------------------------------------|
| AAA Growers | Nairobi | Horticulture | Mr.Neville Ratemo | 020-4453970-4 | admin@aaagrowers.co.ke |
| Belt Cargo Services Export Ltd | Nairobi | French Beans | French Beans | Mr.J.Muigai | 020-4448821 bcs@beltcargo.com |
| Best Grown Produce(K)Ltd | | Mr.Paul Mugai | | 020-4448821 | bestgproduce@yahoo.com |
| Chirag Kenya Ltd | Nairobi | Spces & Herbs | Sales Team | 254-203573000 | naturesown@swiftkenya.com |
| Canken International Ltd | Eldoret | Chillies & Fruits | Mr.Mohamed | 020-222736367 | canken@cankencargo.com |
| Darfords Enterprises Ltd | Nairobi | Vegetables | Mr.Abdul | 254-206622857 | abdulkarim@darfords.co.ke |
| Delmote Kenya Ltd | Thika | Fruits | Sales Manager | 020-672141600 | nanasi@freshdelmonte.com |
| Pj Dave Epz Ltd | Nairobi | Dried Herbs & Roses | Import & Export Manager | 020-3542012 | pjdaveflowers@wananchi.com |
| Dominion Vegfruits Ltd | Nairobi | Fruits & Vgs | Mr.John Mairura | 020-823002 | vegfruits@wananchi.com |
| East African Growers Ltd | Nairobi | Fruits & Vgs | Mr.Peeush Mahajan | 020-822034/25 | peeush@eaga.co.ke,george@eaga.co.ke |
| Equitorial Nut Processors Ltd | Nairobi | Macadamia Nuts | Sales Managers | 020-2030196 | gatua@equatorialnut.co.ke |
| Everest Enterprises Ltd | Nairobi | Fruits & Vgs | Mr.John Karuga F | 020-3542009 | smuhoho@everest.co.ke |
| Fian Green Kenya Ltd | Nairobi | Fruits & Vgs | Mr.Francis Thuita | 020-826157 | info@fiangreens.co.ke |
| Fresh and Juice Ltd | Nairobi | Fresh & Vgs | Ms.Maleka Akaberali | 020-826090 | maleka@freshanjuici.co.ke |
| Fresco Produce Ltd | Nairobi | Vegetables | Mr.Charles Mbugua | 254-0722-764395 | mbugua@freshproduce.co.ke |
| Frigoken Ltd | Nairobi | Fruits & Vgs | Mr.D.Karim | 020-2391717 | frigoken@africaonline.co.ke |
| From Eden Ltd | Nairobi | Vegetables | Mr.Zulfikar Jessa | 020-8562203 | roy@from-eden.com,zul@tilleygroup.com |
| Global Fresh Ltd | Nairobi | Vgs & Fruits | R.Chaudhry | 020-82749/50 | info@globalfresh.co.ke |
| Green Kenya Organization | Nairobi | Onions & Tomatoes | Charles Butiko | 254-723119111 | greenkenya28@gmail.com |
| GreenLands Agro Producers Ltd | Nairobi | Fruits & Vegetables | Mr.G.Murungi | 020-827080/1/2 | murungim@greenlands.co.ke |
| Highlands Cannners Ltd | Nairobi | Fruits & Vegetables | Sales Manager | 020-8564048 | info@highlandcannners.co.ke |
| Hillside Green Growers Ltd | | Fruits & Vegetables | Ms.Eunice Mwongera | 020-2397353 | eunice@hillsidegreen.com |
| Homegrown Kenya Ltd | Nairobi | Flowers & Vegetables | Mr.Richard Fox | 020-3873800 | richard.fox@f-h.biz |
| Indu Farm Epz Ltd | Nairobi | Vegetables | General Manager | 254-20-550215/6 | info@indu-farm.com |
| Jakal Services Ltd | Mombasa | Fruits & Spices | Mr.Bandali | 254-7412229435 | jakal@ikenya.com |
| Jungle Macs EPZ Ltd | Thika | Fruits & Vegetables | Sales Manager | 020-2451841 | info@junglemacadamias.com |
| Jetlak Foods Ltd | Ruiru | Fruits & Vegetables | XX 254-722754181 | mail@jetlak.com | |
| Indu Farm Epz Ltd | Nairobi | Fresh Fruit & Vegetables | Mr.Christian Bernard | 020-550215/6/7 | info@indu-farm.com |
| Kakuzi Ltd | Thika | Fruits,Nuts,Tea | Mr.Richard Collins | 060-2033012 | rcollins@kakuzi.co.ke |
| KHE (1977) Ltd | Nairobi | Fresh Fruit & Veges | Mr.Manu Dhanani | 020-2517979 | khe@khekenya.com |
| Kandia Fresh Produce Suppliers Ltd | Nairobi | Fruits & Vgs | Ms.Lucy Mundia | 254-2054161 | 020-3500866 kandia@swiftkenya.com |
| Kenya Orchads Ltd | Nairobi | Fruits & Vegetables | Sales Manager | 020-822829 | asif@keitt.co.ke |
| Keitt Exporters Ltd | Nairobi | Fresh Fruit & Vgs | Asif Aman | 020-822829 | info@macefoods.com |
| Mace Foods Ltd | Eldoret | Vegetables | Sales Manager | 254-720391290 | mugamaunion@yahoo.co.uk |
| Mugama Farmers | Muranga | Vegetables | Sales Team | 254-728-358211 | infoa@makindugrowers.co.ke |
| Makindu Growers and Packers Ltd | Nairobi | Passion Fruit | Mr.O.P.Bij Okra | 020-822812/196 | meruherbs@meruherbs.com |
| Meruherbs | | Organic Producers | Marketing Manager | 254-20-4442081 | 254-5431352 info@mtelgon.com |
| Muount Elgon Orchard Ltd | | Kitale | Orchards | Bob Andersen | mtl@wananchi.com |
| Mboga Tuu Ltd | Nairobi | Chillies & Vegetables | Mr.J.Kent | 020-3877988 | info@mixafoods.co.ke |
| Mixa Foods and Beverages | Kisumu | Fruits & Milk | Charles O.Odira | 254-733-714584 | mwaiwahome@mosiflowers.com |
| Mosi Ltd | Juja | Fruits | Rose Wahome | 254-722204911 | alphegasial@wananchi.com |
| Migotiyo Plantations Ltd | Nakuru | Herds & Seed | Mr. Rao | 051-2214898 | info@namelokexotic.com |
| Namelok Exotic (K) Ltd | | | Mr. Sinket | 0724-743258 | njambiflora@yahoo.co.uk |
| Njambiflora Ltd | | Vegetables | Njambi | 020-822506/7 | marketing@nicola.co.ke |
| Nicola Farms Ltd | Nanyuki | Fresh Fruit & Vgs | Ms. Grace Wanjiku | 020-2048874/76 | gh@tanlay.com |
| Olivado Kenya EPZ Ltd | Nairobi | Avocado | Nairobi General Managers | 020-710-535303 | wainana_patrick@yahoo.com |
| Saw Africa EPZ Ltd | Thika | | General Manager | 254-722531106 | info@sacco-fh.com |
| Sacco Fresh Ltd | Nairobi | French Beans | Mr.Muia | 020-824687/8 | meleka@freshanjuici.co.ke |
| Shree Ganesh Ltd | Nairobi | Vegetables & Onions | Mr. Kanji Kalyan Patel | 020-80243645 | rano@sianexports.com |
| Sian Agiflora Kenya Limited | Nairobi | Calla Lillies | Ms. Angelina Mangat | 020-822220 | synjenta.east_africa@synjenta.com |
| Syngenta EA Ltd | Nairobi | Seeds | Sales Manager | 254-203222800 | info@sunripe.co.ke |
| Sunripe (1976) Ltd | Nairobi | Fresh Fruit & Vgs | Mr. Hasit Shah | 020-822518/822879 | valuepak@wananchi.com |
| Value Pak Foods Ltd | Nairobi | Fruits & Vegetables | Mrs. Patel | 020 2695633 | info@valentine-flowers.com |
| Valentine Growers Co Ltd | Kiambu | Vegetables | Sales Team | 254-720203765 | bharat@vegpro-group.com |
| Vegpro Kenya Ltd | Nairobi | French Beans | Mr. Bharat.Patel | 020-822831-4 | peris@wamu-investments.com |
| Wamu Investments Ltd | Nairobi | Fresh Fruit & Vgs | Mrs. Peris Muriuki | 020-822441 | |



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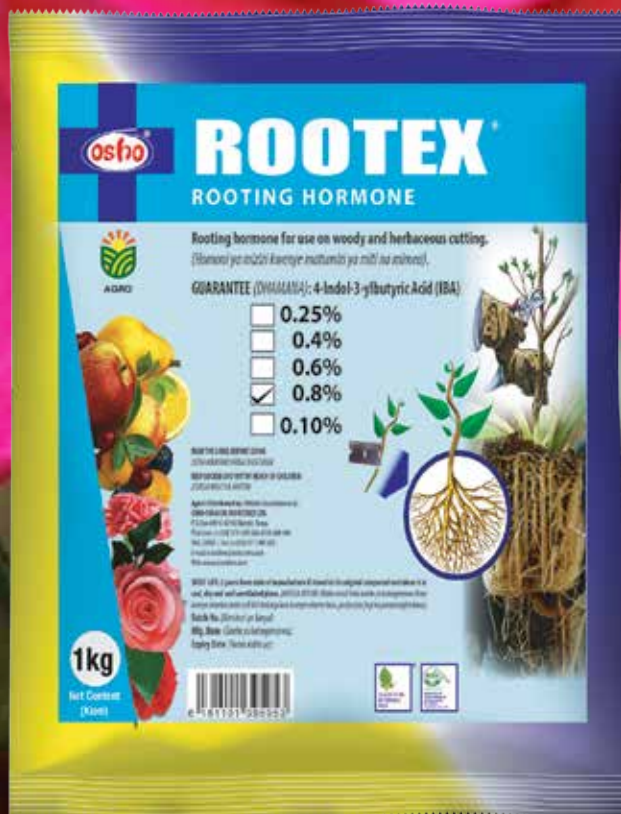
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Description: ROOTEX® is a rooting hormone for use in stimulating the formation of roots on woody and herbaceous cuttings on Roses and Carnation by dipping

Mode of Action: A plant hormone of the auxin family which effects cell division and elongation stimulating the formation of roots.

ROOTEX® works with difficult softwood and semi-hardwood cuttings of deciduous plants and evergreens. They will root faster and with a much higher success rate.

In propagation, ROOTEX® provides a full complement of the essential hormones needed to rapidly initiate root cell formation. In this vital stage of root development, these hormones remain right where they are needed most, at the cut.

User Instructions:

1. Choose healthy and vigorous cuttings, according to the recommended practice for each plant.
2. If cuttings are not vigorous or fresh, put them in moist condition.
3. Dip lower part of the cuttings in the ROOTEX® powder.
4. Remove overdose residues by shaking the cuttings in the container.
5. Plant in rooting substrate.

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