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Ethylene Damage of Flowers Attributes to Upwards of 30% Flower Loss

Flower industry experts estimate as much as 30% of all flower loss is a direct result of ethylene damage, due to either internal or external sources of exposure. Ethylene, an internal gaseous plant hormone, profoundly influences the growth and development of plants. It acts at trace levels throughout the life of the plant by accelerating wilting, regulating the opening of flowers, and the abscission (or shedding) of leaves and flower petals. Ethylene is produced from essentially all parts of higher plants, including leaves, stems, roots, flowers, fruits, tubers, and seedlings. Its production can also be induced by a variety of external aspects such as mechanical bruising or environmental stresses. Flooding, drought, chilling, wounding, and pathogen attack can induce ethylene formation in the plant. Ethylene produced from external sources such as other flowers, banana-ripening rooms in supermarket distribution warehouses, propane heaters, forklift fumes, bacteria, and even cigarette smoke also can have devastating effects on flowers when exposed.

Cut flower plant responses to ethylene:

- Stimulates leaf and flower biological aging, called "senescence"
- Inhibits stem and shoot growth
- Induces leaf, bud and flower shedding, commonly known as "abscission"
- Stimulates epinasty where the leaf petiole grows out, leaf hangs down and curls into itself
- Induces a rise in respiration in some flowers which causes a release of additional ethylene. This can be the one bad flower in a flower box spoiling the rest phenomenon, affecting the neighboring flowers
- Affects geotropism, the turning or growth movement of the flower stem in response to gravity
- Inhibits stomatal, or pore, closing found in the leaf and stem epidermis that is used for gas exchange, stimulating flower aging



Rose - Flower Aging
Untreated for Ethylene



Rose - Treated for Ethylene



Orchid - Flower Drop
Untreated for Ethylene



Orchid - Treated for Ethylene



Carnation - Inward Rolling of Petals
Untreated for Ethylene



Carnation - Treated for Ethylene

Ethylene will shorten the shelf life of cut flowers and potted plants by accelerating floral senescence and abscission. Flowers and plants that are subjected to stress during shipping, handling, or storage produce ethylene causing a

significant reduction in floral display. Some examples of flower types which are more affected by ethylene damage include rose, orchid, carnation, alstroemeria, stock, delphinium, phlox, and freesia.

Ethylene can cause significant economic losses for florists, markets, suppliers, and growers. Floralife has long been involved in developing ways to inhibit ethylene production in flowers to keep flowers fresher longer, through the commercialized innovation of EthylBloc™ Technology. By inhibiting ethylene sensitivity, flowers don't respond to ethylene produced internally or from external sources, far increasing the quality, freshness, and profits of flowers overall.



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Kenya bananas and Broccoli exports cleared for Korea



Dr. Chris Kiptoo

The government of Kenya, through the Ministry of Foreign Affairs has announced clearance of green bananas and broccoli exports to Korea.

The Ministry of Industry, Trade and Cooperatives Principal Secretary Dr. Chris Kiptoo said in a letter to the Ministry of Agriculture that “the Animal and Plant Quarantine Agency of the Republic of Korea has cleared green bananas and broccoli for export to Korea”.

Dr Kiptoo has advised his Agriculture counterpart Prof Hamadi Iddi Boga to assist in contacting farmers and exporters so they can take advantage of the opportunity.

This comes in the wake of South Korea’s Prime Minister, Lee Nak-Yeon visit to Kenya in July this year where he pledged to support President Uhuru Kenyatta’s Big

4 Agenda key among them Korea opening its market to Kenya’s agricultural produce.



Broccoli

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|| HORTISPORT ||

This year has not been the best for the flower sector. From heavy rains to extreme cold, shortage of essential fertilizers, workers redundancies and diversification as shrinking margins take their toll, it has been anything but rosy for the Kenyan rose.



Who speaks for the industry?

Who speaks for the flower industry in Kenya? This question has been asked countless times by media – local and international since Jane Ngige quietly left the Kenya Flower Council after more than a decade at the helm. The easiest way of answering is to say what HortiNews has been telling members of the Press, but we choose to repeat the question; who speaks for the industry?

In September, the industry was hit by some unpleasant headlines and acres of space in a local weekend paper extensively quoting a report titled: Blooms of Death. Other than Oserian Development Company that sought audience with the publishers and got its rejoinder published; and Fairtrade whose reaction was a little lackluster, the rest of the sector laughed off the whole spread, dismissing it as malicious and misinformed, at worst, ignorant. HortiNews went a step further, planned to publish a proposed “State of the Flower Industry” response from the sector but not a single industry association responded to our proposal. Elsewhere in this edition, we have published what can pass as an industry bottom-line from Oserian, Fairtrade and Magana Flowers. It is shocking that such an issue that touches the nerve of this industry can be so casually handled by players who will turn round and cry foul when largely an informed articles are published, accuse the media of not doing its homework and publishing erroneous damaging information. The industry institutions include; Kenya Plant Health Inspectorate Service (KEPHIS), Agrochemicals Association of Kenya (AAK, Kenya Flower Council (KFC), Pest Control Product Board (PCPB), Fresh Produce Exporters Association of Kenya (FPEAK), International Biological Manufactures-Kenya and others.

This year has not been the best for the flower sector. From heavy rains to extreme cold, shortage of essential fertilizers, workers redundancies and diversification as shrinking margins take their toll, it has been anything but rosy for the Kenyan rose. Who, we ask, speaks for the flower industry? Ordinarily, there should be a forum that periodically briefs media about the status of the sector so that when negative reports creep in, the newsmen know how to navigate the terrain without latching on a seemingly juicy story that ends up a costly mess.

Towards end of the year, the much publicized Kenya Airways maiden direct flight to New York took off on October 31, landed at JFK Airport and returned. It was one of those one-hit-wonder tales. Before the flight, stories were all over about how flowers and other fresh produce from Kenya would be among the key beneficiaries of the flight. Until HortiNews spoke to an American flower industry insider at the International Flower Trade Exhibition (IFTEX 2018) who burst out bubble. Unless Kenya flew a cargo plane to Miami, JFK for flowers was a no brainer. We followed up and confirmed with exporters and consolidators the KQ direct flight to New York was not that exciting for the industry after all. That week, we got more calls and emails from media. They wanted to know who to talk to about the impact of the flights to the industry! Who speaks for the industry?

As we go to press, the Water Resource Authority (WRA) has picked a fight with stakeholders in the Lake Naivasha Catchment area following proposals to reduce the Riparian Land. We will delve deeper into this matter in the January edition of HortiNews, but even as we pen off, we will leave you with the question, who speaks for the industry?

Wishing our readers a Merry Xmass and a Prosperous 2019!

Catherine Riungu



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Making Every Flower Count with Solvit



Distribution of powdery mildew in the world

By VICTOR JUMA

Syngenta EA Ltd has continued to deliver successful new product launches, this time Solvit, a new innovative fungicide against powdery mildew and rust diseases in ornamental crops. Five Successful launch activities were held in Nairobi, Naivasha, Nakuru, Eldoret and Nanyuki. During the Solvit launch in Nairobi, Professor Eunice Mutitu, a well renowned plant pathologist from the University of Nairobi, Department of Plant Science and Crop Protection, took the opportunity to congratulate Syngenta on this important milestone of providing an innovative solution against powdery mildew and rust diseases in ornamentals that will significantly improve both quality and quantity of production. Similar sentiments were also expressed by the Chairman of the Kenya Flower council, Mr. Clement Tulezi, who graced the occasion in Naivasha as the chief guest. Mr Tulezi thanked Syngenta for closely

collaborating with various stakeholders in the flower industry to bring to market solutions that meet the needs of growers and the European export markets.

Giving an elaborate presentation during the launch of Solvit in both Nairobi and Naivasha, Dr. Maina Muiru, a Senior lecturer in the Department of Plant Science and Crop Protection from the University of Nairobi, explained the economic importance of both powdery mildew and rust diseases in ornamental crops including the disease symptoms, aetiology, epidemiology and management. "One of the most important constraints in rose production is powdery mildew. Additionally, due to quarantine restrictions, carnation rust is an economically important disease in carnations as eradication efforts can be costly and can cause significant losses in production", Dr. Muiru explained to the growers and other stakeholders who were keenly listening to his presentation. He further continued,

"Powdery mildew has a worldwide distribution and the economic impact is due to reduced flower production and the aesthetic value that is seen in fewer flowers of poorer quality. Therefore, for effective disease management, knowledge of the biology, ecology and epidemiology of the pathogen as well as the host characteristics and those of the pathosystem are very critical to understand".

Powdery mildew of Roses is caused by *Podosphaera pannosa* previously *Sphaerotheca pannosa*. Disease symptoms include;

- Infected areas gets covered with a greyish white powdery fungal growth
- On older leaves- large white patches appear that eventually may become necrotic
- White patches also appear on young green shoots and may coalesce covering entire growing shoots
- Sometimes buds get attacked and become covered with white mildew.



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®



Symptoms of powdery mildew at various stages of infection

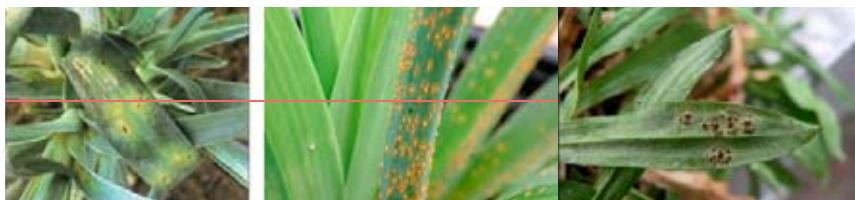
Carnation rust causes discoloration and interferes with photosynthesis resulting to suppressed growth. Disease symptoms include:

- Light coloured lesions on leaves spreading to stems and sepals as disease severity increases.
- Pustules can be up to 10 cm in length and occur on stems, leaves and calyx
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- Pustules can be up to 10 cm in length and occur on stems, leaves and calyx

formulation containing 125 g/l fenpropidin and 50 g/l penconazole. Fenpropidin is a member of the piperidine group of fungicides (FRAC code 5) and Penconazole belongs to the triazole group of fungicides (FARC code 3). The two active ingredients in Solvit® both inhibit sterol biosynthesis but at different sites. The interference with the ergosterol products results in disruption of mycelial growth and fungal development on the plant surface and within the plant. Leaf penetration and plant tissue infection are reduced and haustoria formation is inhibited, which interrupts the disease cycle.

Africa, shared results from trials conducted in Kenya on over 60 rose varieties and other ornamental varieties in collaboration with more than 50 growers across the different flower growing regions. Solvit proved to be fast acting within 48 hours, more effective against powdery mildew and rust diseases on Ornamental Plants with a longer lasting effect for two – three weeks. Solvit is safe to a wide range of beneficial insects and predatory mites. Ms. Njambi reiterated that fungicides should be applied during the early stages of disease development as part of good disease management practices. A maximum of three successive sprays of Solvit should be applied at approximately 5-7 days interval during prolonged or severe attacks. Mr. Victor Juma, the L&G business Manager for Syngenta EA, further added that securing a clean crop during peak and high disease pressure periods should be a target for all growers in order to improve farm productivity and profits.

Mr. Lars Gruchel, Commercial Head for Syngenta L&G Controls CE/EE/East Africa, reminded growers the leading role that Kenya and Ethiopia plays in the global ornamental industry and assured the various stakeholders on Syngenta's commitment to the floriculture industry through investments in research and development to ensure that growers have the right tools to address the challenges of production.



Symptoms of rust on carnations

Symptoms of rust on carnations
Mr. Ruud Roeven, EAME Technical Service Manager at Syngenta, explained the features and benefits of Solvit. In his remarks, he likened Solvit to a “rock” that is always steady no matter the weather, for the effective control of powdery mildew & rust diseases in roses and carnations. Solvit is registered in several countries including The Netherlands, Colombia, Ecuador, Italy and Kenya.

Solvit is an Emulsion Oil in Water

Fenpropidin and Penconazole have a high translaminar activity and are absorbed rapidly by the leaves and green parts of the plants. Inside the plant, Fenpropidin and Penconazole are translocated acropetally (upwards within the xylem) resulting in a good distribution within the leaf and other treated plant parts. It results in faster, more effective and longer-lasting control of powdery mildew and rust.

Ms. Margaret Njambi, Technical manager for Syngenta L&G in East

*The writer is the Business Manager, Lawn and Garden , Syngenta EA, Mr. Victor Juma
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Blooms of hope and future

By **NICHOLAS AMBANYA**

An article published in a Kenyan daily titled 'Blooms of Death,' was done with the motive of painting the flower industry in Kenya and also internationally, in total disregard of the efforts that have been put in place with notable progress in management of the industry. We have done so much, other countries in the world admire our sector and are routinely coming here to see how we do our business.

Having been in the industry for the last 21 years, I can say without fear of contradiction that the health and safety aspects of workers has been prioritized and improved over time. Reading the said article, one would be excused to think we are still in the 90s! The report was therefore a total misrepresentation of facts and a grossly inaccurate picture of our industry as we have it today.

The practices of the industry, captured in the various codes published in the KS1758 (Kenya Standards 1758 Flowers and Ornamentals) unveiled two years ago, are regulated and audited at national and international levels leaving no room for monkey business. Besides, the standards are supported by the strongest workers unions in Kenya that work hand in hand with farms to implement the laid down procedures.

Over the last couple of years, agrochemical manufacturers have been improving and continuously developing crop protection products that are safer for people, environment and beneficial insects. The industry is regularly releasing new molecules and formulations, as well as training users on safety and modes of application to stymie resistance. The agrochemical industry globally is highly regulated due to the poisonous nature of its products and potential to jeopardize



crop protection if not used as per specifications. There are zero chances workers in a flower farm in Kenya can be exposed to agrochemicals, and if there are any, these should be reported and possibly banned from the industry. The laws and regulations are very clear on this. Export permits and certification are based on rigorous costly checks by regulators and Kenya has one of the best certifications firms – the Kenya Plant Health Inspectorate Service (Kephis).

In addition, new pests and diseases emerge forcing the agro science firms to research on new ways of tackling the threats. This is by no means an easy task and solutions can come long after the pests and diseases have wreaked untold havoc in crops. A recent case in point is the invasion by the Fall Army Worm, the Maize Lethal Necrosis Virus and the Tuta Absoluta.

At Magana Flowers, I take personal responsibility for the safety of workers and this is a well known practice. The products from the industry exported to Europe, Australia, Middle East and other parts of the world undergo a constant test at the ports for standardization and safety measures.

If indeed there was widespread malpractices, flower farm managers and the industry at large would be up in arms. If the Blooms of Death came from mandated authorities as an attempt to caution the industry that all is not well, I would take it very seriously. As it were, my best response, and I believe I speak for my colleagues, ignore it.

Message to the media

The media should seek facts from authorities or institutions for verification before publishing reports that are to demean or affect the economic status of flower farming. No sane flower farm at this time and age can be doing what has been reported.

Safety measures in the flower farms

Championing for workers' rights and ensuring their safety is a key issue as without them then there is nothing like flower farming.

After chemicals are sprayed to the flowers in the greenhouses by the word of them being not harmful or a threat, 12 hours have to lapse before any worker is allowed to enter the green house.

Blood tests are also made to monitor if there is any way the blood comes into contact with the chemicals. This is done in every 3 months and costs the flower farms especially the Magana Flower Farm heavily for these medical checkups. From these medical checkups there has been no case of health issues originating from the use of chemicals in the flower farms and would therefore condemn the report in the strongest terms and way possible.

The flower industry in Kenya has come from far and the progression realized so far assures the industry blooms of hope and future.

The writer is the CEO of Magana Flowers

Oserian is a responsible grower!

We have documentary and physical proof that the article is a gross misrepresentation of Oserian Development Company, and especially the medical history of our employee Janeclare Oloo whose illness has absolutely nothing to do with agrochemicals or working in a flower farm



Oserian
Administration
Director
Mary Kinyua
(middle) framed
by Rachael
Macharia and
Stephen Musyoka
of Madumbi East
Africa at IFTEX
2018

By MARY KINYUA

A report in the Saturday Standard of September 22, 2018 titled Blooms of Death; Flowers rake billions at the cost of poor workers' lives with a sidebar titled Doctors warned me against going back to the flower farm led HortiNews to seek industry response to the article. Our key concern with the story is portraying us as an irresponsible company and being used to validate the information reporters used as source of the malicious information.

The damage that can arise from such gross misrepresentation of our business in terms of lost business opportunities and reputation is unimaginable.

Consequently, we wish to put the record straight regarding the inaccuracy of the information as presented by the reporters/ editors and the cost such reports visit on a company built on ethos for almost 50 years.

We have documentary and physical proof that the article is a gross misrepresentation of Oserian Development Company, and especially the medical history of our employee Janeclare Oloo whose illness has absolutely nothing to do with agrochemicals or working in a flower farm.

Secondly, our spray regime and safe use policy is an open book. Not only have we drastically reduced usage of chemicals under our sustainable practices, we use biological pesticides, geothermal and domestic animals and other green methods in our farm to control pests and diseases as well as create a safe environment for people and planet. Kenya does not allow importation of harsh chemicals classified as Category Red or BASIS that are banned by WHO, despite their being used in Europe. This can be verified with the Pest Control Products Board, the institution that approves and registers all pesticides used in the country.

Besides, the Kenya Flower Council has a prohibitive chemicals list as is Fairtrade Certification which has the hazardous materials list of chemicals PROHIBITED FOR USE in the flower industry, and our stores are open for your checking. In addition, we have no known records of chemical poisoning at the farm, our spray department workers are routinely checked for chemical enzymes every three months. Any cases of low levels in chemical spray staff lead to transfer to another department. Sprayers are rotated every month after spraying once. Before any staff is assigned to the spray section,

they must undergo tests, training on safe use and sign documents to the effect they are safe to handle chemicals. Staff transfer when there are complaints about working environment are routine for all departments.

Of utmost importance, WOMEN ARE NOT ALLOWED to handle chemicals and we spray AFTER workers have left for the day after 3pm. Spraying ends at 6.30 and the farm opens at 7am. Re-entry into greenhouses after spraying doesn't happen until more than 12 hours later. No chemical has such a long re-entry level!

Our chemical store is always under lock and key and when transporting products to the mixing room, security escorts the process to avoid diversion to prevent any unintended use of the chemicals.

These accounts should tell you that our employee Janeclaire Oloo has no contact whatsoever with chemicals. The team of doctors attending to her who include some senior specialists, in the medical practice, none has linked her medical case to chemicals or workplace hazard.

Oserian, having founded the Kenya flower industry has positioned itself as a role model of the most responsible and regulated sectors, is



Oserian uses geothermal powered electric cars to transport flowers from greenhouses to packhouse reducing use of fossil fuels for a cleaner environment

proud to be associated with an business that is a global benchmark therefore

being labeled as the epitome to justify the headlines Blooms of Death is highly regrettable. Such sensational reporting that lumps together farms that have heavily invested in responsible growing practices against which they are as heavily audited can easily backpedal gains made over 50 years to develop a world class industry.

Our markets are highly sensitive to these kinds of media stories and the damage your article is likely to cause our very responsible business, could have far-reaching implications.



Oserian using sheep to lawn grass reducing use of fuel lawn mowers for a cleaner environment and improvement of food

***Mary Kinyua is Director, Human Resources and Administration.
Mary.Kinyua@oserialan.com***

More flower farms embrace the new packing technology by Cargolite



Cargolite: A new innovative packaging technology

By MURIMI GITARI

The new innovative packaging technology concept by Cargolite has seen more flower farms ship in to use the boxes due to the need of improving flower packaging in solving the problem on collapsing of regular boxes, eventually damaging the flowers. The concept saves companies in air freight and packaging cost. The forwarders have their share too, efficient offloading, box screening, and aircraft pallet building. The unpacker in Europe was also well thought of in the concept, its quick and cost effective process in unpacking, giving a positive impact to the whole supply chain of up to the consumer who enjoys flowers of desired quality courtesy of Cargolite.

During the initiation of this concept in Kenya by the Israel based company, it was only Oserian Development Company Ltd that adopted the concept

but currently other flower farms and buyers have started embracing the new technology. International Procurement Logistics (IPL) a UK buyer in Kenya now has three of its suppliers packaging their orders on Cargolite box: Oserian, Panda Flowers and Branam Flowers. Oserian and Karen Roses are packaging for SuperFlora BV a UK based importer.

There are certain key aspects that make this new modern technology more specialized and advantageous in comparison to the regular boxes calling for more flower farms to adopt this new technology. According to Mr. Martin Kabaka, the Cargolite representative in Kenya, regular boxes collapse on arrival in Europe compared to Cargolite box that do not as there are plastic frames used to hold the boxes intact making them stable. The weight of the boxes is distributed within the column on the skids The boxes are able to achieve

volumetric weight due to the less packaging materials and more flowers packing by staggering system thus saving on freight costs. In regular boxes Single Faced Kraft (SFK) are used in wrapping the bunches consuming space that could be used in packing of more flowers. A kilogram of SFK cost one dollar. This is a direct saving for the farm by using Cargolite box because no wrapping is used on sleeved. In case of raw materials, Kraft liner which is less weight and low volume is used. There are also customized pallets for these Cargolite boxes that are used to palletize

15 boxes per skids unlike regular boxes that are packed one by one.

Cargolite is now extending its wings to other countries to introduce the new technology. Trials have already been conducted in two flower farms in Ethiopia, AQ Roses and Ziway Roses in conjunction with Ethiopian Airways.



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**From The Directors, Management & Staff
of
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Fairtrade Africa launches alumni association

The organization which is based on partnership between producers and traders, businesses and consumers is an alternative approach to conventional trade advocating for better working conditions and improved terms of trade for farmers and workers across Africa and the Middle East

By MURIMI GITARI

Fairtrade Africa, an independent non-profit umbrella organization for all fairtrade certified producers in Africa and in the Middle East representing over 1 million smallholder farmers and workers launched a premium alumni association in a very colorful event at Westlands in Kenya's capital Nairobi with representatives from various flower producers and stakeholders from Coopa in the United Kingdom. The organization which is based on partnership between producers and traders, businesses and consumers is an alternative approach to conventional trade advocating for better working conditions and improved terms of trade for farmers and workers across Africa and the Middle East. Shoppers recognizes products that meet Fairtrade standards through a system of Fairtrade mark on products that which attracts a minimum fair price above the premium price Fairtrade workers and farmers receive that are additional funds above the purchase price in which they invest in social, economic and environmental projects of their choice translating to investing more to the premiums they get from what the producer organization sells. The impacts these premiums have had on communities have been immense through creating scholarship funds, issuing bursaries



Fairtrade Africa Alumni in red T-shirts

to purchasing school supplies and construction of libraries and class rooms. This is due to the fact that education is a vital component to Africa's development and growth regardless of Africa lagging 20 percent behind the world average in terms of enrolment rates in universities according to UNESCO and World Bank statistics.

Due to the increase in number of bursary beneficiaries from Fairtrade Africa (FTA) an alumni association was launched with the aim of getting these beneficiaries share their success stories and working in partnership with the FTA communication team in promoting the FTA brand in

communities that they operate in together with mentoring students in Fairtrade certified produce organization schools. This has been able to be achieved after Kenya flower workers received an annual \$ 4,459,181.53 of fairtrade premium between the year 2006 to 2014 which has been invested in education and other social programs that has seen over 6,000 children of families working in flower farms benefit across the country. Sharing their success stories during the launch, the alumni expressed their gratitude to the FTA for the impact they have put to them through the premiums to the communities



During the Fairtrade Africa Alumni launch at Radisson Blu Hotel in Westlands, Nairobi

and mostly to their families who work in flower farms.

Wreford Momanyi, who is the chairperson of the alumni association shares of how he benefited through a full scholarship he received from FTA whereby his parents were both working at Oserian Flowers as flower graders. After enrolling at Oserian's early childhood program and later joining Hilltop academy where he attained 393 marks out of the overall 500, his parents could not afford enough funds for his secondary education at Koilel High school where he was to be admitted. FTA offered a scholarship that saw him complete his secondary education and join the University of Nairobi where he studied Electrical and Electronic Engineering and after completing got himself a job with PricewaterhouseCoopers as a Technology Consultant. Momanyi believes that he could not be where he is if it were not for the sponsorship that was pegged on him in performing well and proving a peace of mind. Being every girl's dream to get education, it was not different for Jane Onyango Mambone who studied Supply Chain Management through the scholarship and currently working as a Store's Manager at Flamingo Horticulture. Beating all odds from a community that bars girl-child towards education, Jane boasts of being able to complete her college

studies after benefiting from the FTA program through her father who was working at Flamingo Horticulture. During the launch, Victor Obiero, another beneficiary of these programs who completed his studies and now working as the Maintenance Technician at Oserian Geothermal Plant at Naivasha was promised a full scholarship to his siblings by the COOP/FTA chairperson Mary Kinyua after expressing of how he took the responsibility of ensuring his siblings get the same schooling he acquired. The FT premium partially paid for his last year at secondary education and after passing he joined JKUAT to pursue a bachelor of Social Degree in Control and Instrumental Engineering through the FT premium support .victor's mother was working at Oserian farm as a casual worker but through her diligence and determination she secured herself a permanent position. More of the ongoing initiatives by FTA are engaging audience through online platforms and resolving to work closely with the media and also empowering producers with youth and women involvement according to the FTA chair Mrs. Mary Kinyua. Mary says it is the high time to communicate to stakeholders that Fairtrade works and teams need to get together and be involved in the global work of FT through positioning the beneficiaries

or the alumni as future leaders and them to advocate that they have potential and energy of helping grow the industry at large. She further notes that Fairtrade has been met with a number of challenges especially negative media publicity that has seen the industry being painted in bad light with the market share shrinking in the United Kingdom.

Kenya alone has got 42 flower farms with over 35,000 employees and 50,000 dependents with amounts of premiums totaling to 7 million Euros of which 28 percent of the Euro goes to education funding with the highest single allocation going to premium projects with an example of a hospital built by Bigot Flower Farm along Nakuru- Naivasha highway. The 11 alumni members who were present during the launch articulated of how they will show their support to FTA by promoting the brand, raising the profile of the organization and participating to FTA activities by a way of showing their and appreciation for the beneficial gains they acquired through the premiums.

FTA has recognized the current relationship it has with the alumni who have benefited from the premiums and wish to encourage and expound their contacts between the alumni through this launched Fairtrade Africa Premium Alumni Association platform (FTAPAA).



Classrooms built by bigot farm using fairtrade premiums



Some of the desks donated by bigot farm in a primary school

Fairtrade Africa impacts positively to flower farm workers and communities

By MURIMI GITARI

Established in the year 2005, Fairtrade Africa has changed the livelihoods of flower farm workers and impacted much to communities by having projects that are of beneficial to them. This is through flower farms that fully comply with the standards of Fairtrade and are certified.

Communities within Naivasha region are the most beneficiaries of these projects due to the fact that many flower farms in Kenya are located within the region. This has seen many people get employed in the farms which come with benefits of premiums that are made by the farms.

Bigot flower farm, located in Naivasha along Nairobi-Nakuru highway is one of the farms that

complies with Fairtrade Standard and got certified, an achievement that makes them get exclusive markets for their products. This means that 40 percent of their total production goes to Fairtrade markets in Europe. The farm signs contracts with the markets a guarantee of selling their products as it shows the volume of stems to be sold and the prices. In every stem sold there is an added extra 10 percent of the actual price per every stem by the buyer which is a premium that goes directly to the flower farm workers.

Charity Opon, the Human Resource Manager at Bigot Farm says that these premiums are not part of the wages or salaries that the workers receive as payment as there are guidelines stipulated by Fairtrade on the usage of the premiums. Workers have a

one account where these premiums are deposited within a maximum of 45 days and a minimum of 15 days after the selling of products. They have committees that direct them on projects to put up or how they are going to use the premiums. Some of these projects is issuing of school bursaries to the worker's children, economic projects, and community projects and having programs that are of benefit to workers. Through the premiums, she says, Bigot farm pays 90 percent annually of total school fees of the employee's children in secondary and in higher learning institutions both in public and private schools. This money is a big benefit to them as they are not required to refund back making it easier for them to educate their children without any kind of

difficulties. Employees who also want to further their education also benefit from these premiums where they are issued in two categories of those undertaking short term courses and those in colleges. "The farm pays all the fees but recover 40 percent of it from their salaries in flexible installments of up to 36 months," Charity explains. The amount paid for their children is not recovered in anyone's salary. In average 450 students benefit from these bursaries annually with 380 students in secondary schools in this year while 70 in colleges and universities benefited. The farm also supports a children's home in Naivasha by giving them bursaries, clothes and food items.

Esther Nyambura Juma, a worker in the farm explains of how she became a beneficiary of these premiums when she joined the farm in the year 2012 and joined college in 2015 to pursue a diploma in Information Technology that made her get promoted from a casual worker and now in the position of a recording and analyzing of production data within the farm. "Fairtrade has really changed me as I have been able to further my education and even go abroad in Germany to campaign for it and market for Fairtrade products," Esther says. She adds that Fairtrade has really impacted much to her and to the community at large and believes if it were not for Fairtrade she would be still the same when worked as casual for she never earned much.

There are economic projects from the premiums that include homes improvement of workers where they take short term courses and apply for equipment after completion of the courses for them to start their businesses in line with Fairtrade objectives. The money used to buy these equipments is deducted from their salary in 48 months (4 years) installments. The workers who wish to start businesses are also given loans with an interest free rate acting as a



The pit latrines constructed usin fairtrade premiums by bigot farm

microfinance agent. They are also helped to build houses at their homes by getting materials from the farm which usually happens in September of every year at Bigot flower farm. In this farm the workers have been able to purchase a 72 seater bus that the farm hires for transportation of workers daily and afterwards get paid by the end of every month. All the drivers in the farm were trained through the Fairtrade premiums.

The premiums have been used in community projects that include building of classrooms in primary and secondary schools, construction of laboratories, donation of desks, tree planting and water tanks for schools and communities. This is done in both remote areas in the villages and also in towns. In the past 5 years Bigot farm has been able to build 8 classrooms, 2 laboratories and a total of 36 pit latrines in public schools. Each classroom is built with an estimate of between ksh 800,000 and 1 million with the construction and equipping of laboratories ranging between 1.8 and 2 million. Donation of desks is done in every 2 years whereby in last

year the farm donated 500 desks in 10 public schools with every school getting 50 desks. A modern state of the heart maternity hospital, 'Friends of Naivasha Women's hospital,' was also built by all certified Fairtrade farms in Naivasha with the premiums a project that was started 5 years ago which is currently owned and managed by the county government of Nakuru. It is the biggest project done by all the certified flower farms in Naivasha.

The farm has a wellness program that caters for people living with HIV/AIDS that is fully funded by the Fairtrade premiums. They have a clinic within the farm that take care of the affected employees. Currently the farm has 42 people who are beneficiaries of this program. The wellness program which has its own package has helped in reduction of absenteeism is search of medication. Due to counseling done in the farm these people do not receive any kind of stigma from their fellow workers. The program has attracted other non-governmental organizations that care for the treatment of workers.

Statement by Fairtrade - Flower Farms Speak



Michael Gidney Fairtrade Foundation CE and Naivasha MP Jane Kihara

Following an article about effects of chemicals on flower farms appearing in the Blooms of Death article published in the Standard newspaper, on Saturday, September 22, 2018, key market players, stakeholders and the top management of flower farms in Naivasha met on September 26, 2018, to look into the issues raised and came up with a rejoinder.

As members of the flower growers' network in Naivasha, we critically went through this article which we found to be entirely incorrect about the state of flower farms in Naivasha regarding "deaths of workers as a result of chemical poisoning".

We encourage journalism that shines a spotlight on the challenges faced by farmers and workers in global supply chains. We committed to Fairtrade certification because we believe in improving the working and living conditions of our employees, and have continued to do so over the years.

Pesticides

Flower plantations must meet the requirements of Fairtrade's Hired Labour Standard and the additional Flower Standard in order to obtain and maintain Fairtrade certification. The standards prohibit pesticides that pose the greatest health risks to workers and the environment. Fairtrade also requires progressive elimination of all other pesticides that are classified as highly hazardous. The use of proper personal protective equipment and training on safe handling, storage and administration of pesticides are mandatory requirements of the Fairtrade Standards.

The standards strictly determine re-entry intervals after spraying. The standards also prohibit pregnant or nursing mothers from engaging in any potentially hazardous work. Free occupational health care is provided and it's required that workers who engage in handling any potentially hazardous chemicals are examined regularly by a medical doctor to monitor for possible changes in health due to exposure to hazardous chemicals.

These examinations must be free and confidential to the respective worker.

Wages

All wages paid to our workers are benchmarked against the sector Collective Bargaining Agreements (CBA) and set minimum wages for the sector. We also ensure that real wages are increased regularly to continuously close the gap with inflationary rates. The incremental steps are negotiated with trade union/elected worker representatives

Independent auditing

In order to check compliance with Fairtrade standards, certified farms are regularly audited by the independent certifier FLOCERT. FLOCERT is accredited against the ISO 17065 norm for certification bodies and is itself independently audited.

Fairtrade certification includes a combination of both announced and unannounced audits. These include detailed physical inspections of fields, plants and offices; document and finance reviews; and confidential interviews with staff members at all levels.

Auditors are regularly trained on interview techniques and rules, and they are instructed to.

Always personally chose the interview partners and never interview workers suggested or brought to them by management.

Explain to the interviewee that a considerable number of workers will be interviewed, that their name shall not be taken, and that management will under no circumstance be informed of what they say.

Conduct interviews in a place where the workers feel comfortable, never within sight of management or in management offices.



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Food security handshake



President Uhuru Kenyatta presents a National Farmers Awards trophy to Elgon Kenya Head of Communications Nelson Maina. Looking is Agriculture Cabinet Secretary Mwangi Kiunjuri (middle) and cheered by ASK CEO Mr Batram Muthoka

By **BOB KOIGI**

President Uhuru Kenyatta has rewarded Elgon Kenya for the crucial role the company is playing in driving the food security resolve, a key pillar in the Big Four Agenda.

The President presented the trophy to Elgon Kenya Head of Communication Nelson Maina during this year's Nairobi International Trade Fair appreciating the company for the transformative National Farmers Awards scheme now in its sixth year.

The awards, a partnership between agro input company Elgon Kenya Limited and the Ministry of Agriculture and Irrigation, has grown to be an important event in the country's farming calendar since it was first

launched in 2013 having created a host of soil celebrities. Winners in the youth, women and physically challenged are rewarded by the President at the Nairobi International Trade Fair and a gala dinner with top government officials organized for all the winners.

Through working with both national and county governments, the scheme has reached farmers in every corner of the country whose heartwarming stories embody the spirit of ordinary people surmounting numerous odds to deliver extraordinary results even as it seeks to champion the government's agenda of a food secure country by the year 2022.

The national fete while romanticizing agriculture as a rewarding endeavour, has spurred talk and action on making life easier for food producers to feed

a growing population that is already putting a strain on food availability. The awards have also been pivotal in shifting discussion from boardrooms to a central meeting point between ordinary farmers and other key players in the sector including government and private sector players.

Past winners have gone on to create agricultural empires that are not only benefiting them but entire communities and getting attention beyond the country. Such testimonies rubberstamp what the awards set out to do; to create a network of model farmers across the country who would be ambassadors of the country's food security, influencing many more into sustainable farming.

for farming champions 2018



President Uhuru Kenyatta and Elgon Kenya Director Bimal Kantaria at an earlier Farmers Awards recognition

By CATHERINE RIUNGU

More than 100,000 farmers have participated in the annual National Farmers Awards Scheme since the competition was launched in 2013.

This year, the judges leafed through thousands of applications from all counties to select 25 winners in eight categories, a rigorous exercise considering the high quality of agribusinesses seeking what has become a coveted trophy.

The Ministry of Agriculture, in partnership with Elgon Kenya introduced the scheme in 2013 to reward, motivate and appreciate hardworking farmers who have shed conventional farm practices to embrace commercial farming.

The scheme was born out of the

desire by Elgon Kenya to encourage farmers as a contribution to food security and job creation, has naturally fit into President Uhuru Kenyatta's Big4 Agenda, Pillar 4. It was for this reason Elgon Kenya was again feted this year by the President in recognition of its support for the awards.

A walk down memory lane to see how winners have fared since carrying their trophies home reveals a story to be proud of. Not only have their farms evolved into 'training centres', they are often the point of reference whenever their neighbours are looking for practical inspiration. Last year we heard the story of a young farmer who followed in the footsteps of a winner and made a resolve he too must win. And he did. Two winners of the Women in Agriculture category

have gone ahead of the pack, to see their farms picked by their county governments as models of excellence. They have attracted visitors from across the world. The training sessions have become transformative in growing food from a point of information at a time when traditional information sources including extension officers have become scarce.

That some selected winners – mostly the special categories of youth, physically challenged and women get their trophies from the President during the Nairobi Show, shaking the Head of State hand has grown into a major factor as farmers put in extra effort, to grab the Presidential Handshake. A winner who was among the first to greet President Kenyatta has since acquired the moniker of the President's Farmer in his village.

It is such heartwarming stories that give us the inspiration to carry on with this competition despite its getting tougher year on as judges face the herculean task of picking a best farmer among stars. We can confidently say that most farmers who participate in the awards are by all means agriprenuers.

It was for this reason that a decision was arrived at to introduce a specific category for the flower sector. Those familiar with this sector will agree with us the industry is a sophistication of technology, employing the best and latest globally. It therefore became increasing impossible for farmers in this segment to compete with other full commercial entities. Since the beginning they have been winning all the trophies!

Although lessening the competition to make room for the others didn't make things any easier going by feedback from the bench. The farms

are so competitive, settling on the best among the best has been one of the most difficult verdicts yet in this scheme.

We take this opportunity to congratulate all our 2018 winners and look forward to seeing them at the gala dinner early next year when they will be picking their certificates and trophies.

As we prepare for this, we would like to add our voice to the cry of the industry especially the VAT on agro inputs that stakeholders are lobbying the government to reconsider waving to reduce cost of production. Farming is already burdened by many challenges key among these climate change and emergence of new pests and diseases requiring a rethink into policy decisions that worsen the burden.

The award scheme has rubberstamped the gains derived from public private partnerships.

Working with both national and county governments, the initiative has not only managed to reach farmers even in hinterlands, but congregated key sector players under one roof to keep the pulse on the industry while discussing sustainable interventions.

Elgon Kenya is particularly grateful to the private sector players, BASE, Bayer East Africa, Arystal, UPL, Excel Crop Care, FMC and Seeds of Gold for sharing in the dream and philosophy of recognizing our farmers and walking with us in the journey to transform our farms into bountiful harvests, sources of household incomes and oiling our country's economic growth and prosperity. The dream of a hunger free Kenya can only be realized by rededicating our attention and focus to those who have taken it upon themselves to return dignity to the soils one crop at a time.

CELEBRATING AGRICULTURAL MILESTONES

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Storm over proposals to reduce Lake Naivasha riparian area

By MURIMI GITARI

The move by Water Resources Management Authority (WRMA) to reduce the Riparian land within Lake Naivasha has been met with a backlash by various stakeholders and agencies who have strongly objected to the proposal as they were not consulted during its making and revoking of Order 2012 of the Lake Naivasha Catchment Area Protection and coming up with another one. The authority has proposed a reduction of the riparian land in the lake but has not provided any details on why and who to be allocated the land.

The National Environment Management Authority (NEMA) outlines clearly that any kind of activity around the lake has to undergo an Environmental Impact Assessment to determine the effect that will arise from these activities. According to the Nakuru County NEMA Director, Antony Saisi the first step by WRMA was supposed to be making of the assessment and submit it to NEMA and thereafter organize public participation.

Mr. Saisi explains of how various issues pertaining flora and fauna and ecotourism will be affected if the proposal is validated. "The biodiversity will be highly affected if WRMA reduces the land around the lake, bearing in mind the benefits the land gives to the wildlife, fishes that breed along the shores," says Mr Saisi.

He adds that the authority should be convinced by WRMA for them to allow the reduction of the land by making an assessment and if they fail to then they will issue an order to stop the proposal



as stipulated by the law. The director says that the authority should give reasons as to why reduce and genuine process has to be followed.

The Lake Naivasha Riparian Land Association has also objected the proposal and have petitioned WRMA for not following due process in the making of the new Order 2018 of the Catchment Area Protection. Having a number of negative impacts the proposal will bring about, the association which was formed back in 1929 for arbitrating land conflicts between land owners and such cases of riparian land, feel that the proposal is there to open an avenue for land grabbing and ratification of illegal

titles. The move according to them has not provided any protection measures from pollution of the lake, encroachment and adverse human activities that are a threat to the lake. In draft petition by the association, they note that there was no public participation neither consultations to relevant agencies and bodies in making of the draft order and guidelines by WRMA.

Mr. Silas Wanjala, the General Manager of the association says that the guidelines in the new order have not provided the fate of the land that will be freed from riparian between the subsisting contour 1892m3 above sea level of the lake and the proposed contour 1888m3 above sea



Lake Naivasha biodiversity

level, a difference of 4 meters that will shrink the existing riparian. Technically, Mr. Silas says that there will be land that will not be categorized as riparian and they have no clue of whom the land shall be allocated meaning the land shall either be surrendered to the National Land Commission and the ministry of land if due process is followed. "The riparian land has been a benefit to the community who fish and trade here, bird of prey due to the papyrus around the lake and also the hippos that feed from the land," the General Manger says. He adds that the reduction of the land will lead to destruction of the papyrus thus destroying the acacia woodland due to illegal human activities that will arise like logging and degradation. The effect of this will be loss of the ecological functioning of the lake. According to Mr. Silas there will be risks associated to the reduction of the riparian like loss of ecological habitat for wildlife that rely directly to the land and even killing the economy of the Naivasha town.

"As an association and stakeholders, we will not allow a document and process to be forced on us for we have to be involved in every step and drafting of due to the fact that there are contentious clauses in the management guidelines contained in the draft by WRA and we have written a memorandum protesting these guidelines," says the manager. He adds that the authority has a convened a meeting for the validation of the order and guidelines but have not disclosed full information about the meeting.

The Nakuru County Environment, water, energy and natural resources committee led by Joseph Mungai Katharika who is the Chairperson and also the member of county assembly of Mayale Ward have also objected the proposing by saying that WRA is supposed to be leading in conservation of the lake and not coming up with proposals that are a threat to the lake. The Chairperson says that they are waiting to receive official

communication from the authority as a Committee to know what their motive is and why they have taken a responsibility that is not under their custodian. A number of factors will arise affecting tourism, power, agriculture and hospitality sectors.

He says that the assembly had come up with a bill that enshrines a number of articles in the legislation and policies of the lake and notes they will file a petition to the National Assembly and the Senate to protect the ecosystem of the lake. "A motion in the assembly cannot supersede the two houses as WRA is under the national government and that's why we will file a petition to protest the proposal as the county assembly of Nakuru and if this will not go well we will tell our people to evict those that will be allocated the land," Mr. Katharika says.

The county government of Nakuru was also not involved or consulted during the making of the new order and the guidelines with the Environmental committee chairperson saying the

Community fears over proposed reduction of Lake Naivasha Riparian land



Illegal structure that was constructed in L. Naivasha

By MURIMI GITARI

Located in Nakuru County, Lake Naivasha is the main source of water to the communities and animals in the region and serving the people in many ways regardless of the challenges facing the basin. Amid fears of fanning human conflict as well as human-wildlife conflict, fury has greeted reports that the Water Resource Authority (WRMA) has revoked the Lake Naivasha Catchment Area Protection Order of 2012 and proposed a new order that will see the Riparian Land reduced by 400 metres, effectively creating an estimated 200,000 acres of 'land' from the water. The decision has strongly

been objected to by the community, the main beneficiaries of the lake. They have petitioned the Authority as they feel they were not consulted and the revocation is contrary to the law. In their petition, the Lake Naivasha Landscape Association, says that WRMA did not give stakeholders any kind of disclosure of justification for the review of the existing law as required. The association notes with concern that the proposed reduction of the Riparian Land will reduce wildlife habitat for flora and fauna, affect natural breeding for fish, birds and wildlife. Increased human-wildlife conflict is likely to occur. There are animals that

live in the water especially hippos that depend on the riparian land and the proposed reduction will shrink the feeding area for these animals and people, especially fishermen and traders resulting into increased conflict.

"The objective of WRMA is to reduce the existing boundary of the riparian, a move that we the people of this area do not understand as we were not told the reason for revoking order 2012 of the catchment area protection," Mr. Paul Ruoya, the Chairman of the Lake Naivasha Network Association says. He adds that the move will have a negative impact that will lead to soil erosion, pollution and siltation of the lake.

"The existing riparian land is used by fishermen and traders and if WRMA reduces the area which is a fishing site and fencing it, that means the business of these common people will be greatly affected, no one knows if their plan is to issue the land to people or what their intentions are," Mr. Ruoya says.

Kennedy Waweru, a fisherman at Karagita Beach says the area has been his source of income and many other people and they are worried by the move. He says the authority could have involved them in any kind of participation even before they could gazette the new order of 2018 of the Catchment Area Protection of the lake." This is where we feed our families and educate our children from and we have nowhere else to go if the new order comes into place, they are reducing the existing riparian land and want to add more of it towards the lake and we think and



A dike constructed within the lake by an investor

believe they want to give that land they would create to rich people. They will come and fence the area denying us access to the lake,” Mr. Waweru says.

The fishermen and traders at Karagita Beach complain of how a local investor harasses and denies them access to the lake through a road that goes to the lake which he claims as part of his land that is located near the lake.

“ Kariuki has harassed us many times by getting us beaten and arrested by the police for he claims this road is part of his land and we should not be using it,” a trader who asked for anonymity says.

The traders say that they have been to court and justice was not served in the right manner as it favored the investor. They explain of how Kariuki, the investor suggested they build a fly over from the main road to the lake for them to be using, an idea they strongly objected as the

road is public land and should not be claimed by anyone.

“We appeal to the national government and mostly the leaders we elected to help us in this matter and get the new order revoked,” a fisherman says.

There are already private developers that have put up permanent

Kariuki has harassed us many times by getting us beaten and arrested by the police for he claims this road is part of his land and we should not be using it,” a trader who asked for anonymity says

structures within the riparian land at the lake and according to the community no action has been taken against them.

WRA failed to respond to messages we sent them to know why there was no public participation, if there was any full disclosure of information to all the stakeholders involved and who will be the custodian of the land that will be created after reviewing of the riparian boundary. With the water levels in the lake increasing, WRMA failed to respond to what point did the height above sea level of the lake drop from 1892m to 1888m as indicated in the Lake Naivasha Catchment Area Protection Order (proposed 2018) from the existing Order 2012. The issue of carrying out an environmental impact assessment and justification of the review were also part of the questions the authority has not responded to.

Organic Fertilizers

By RUTH VAUGHAN

Organic fertilizers are derived from animal or plant matter, manures, algal and seaweed products, and organic wastes from processing and food industries. They have a high carbon content and tend to be more diverse in nutrient content, slower acting, longer lasting and benefit agriculture by not only adding important plant nutrients, but also building organic matter content and soil fertility.

Soil organic matter (SOM) is the organic matter component of the soil. It is critical for soil function and soil quality. Soil quality is defined as the capacity of a soil to function, within natural or managed eco-system boundaries, to sustain plant and animal productivity, maintain r enhance soil and water quality and support human health and habitation.

Soil organic matter is very important for many soil functions

- 1) Direct supply of plant nutrients through decomposition.
- 2) Stable humus compounds hold and release nutrients – making them more available to plants and reducing volatilizing and leaching losses.
- 3) Buffering pH and high salinity effects.
- 4) Providing a nutrient source for soil microbes – increasing microbial activity and biodiversity in the soil – important for plant nutrient uptake and reducing soil born pests and diseases, and natural bio-remediation of pesticide residues.
- 5) Promotion of aggregate formation and soil structure stability – which in turn improves water infiltration, water holding capacity, resistance to compaction and erosion and better root penetration, nutrient uptake, yields and food nutrient density.
- 6) Buffers heavy metals and pesticides, reducing plant uptake, improving food safety.



Vermiculture is great way of processing vegetable waste in a highly beneficial way, into compost, worm tea, worm leachate. It can be applied to the soil as a foliar spray. Worm products contain many beneficial nutrients and microbes and do amazing things, But the nutrients content EC and pH are very variable according to the type of vegetable waste, so test the product before using.

Soil organic matter levels sit at about 1-8% for mineral soils, and depend a great deal on soil texture, soil management, vegetative cover, moisture levels and temperatures. Low organic matter is seen in desert areas, and sandy soils, higher organic matter can be seen in peaty soils and low-lying flooded valleys. Soil organic matter consists of actively decaying organic material that is the energy source for microbes and is important for the release and recycling of plant nutrients – this breaks down to more stable humus compounds that are important for soil structure.

Natural organic fertilizers may be produced on the farm (composts, manures, green manure crops, vermiculture etc.) or purchased in. Farmers can search <http://shambaza.com/organic-fertilizers> to source organic manures commercially available in Kenya.



Cow manure is a cheap, ready available organic fertilizer - but it should be aged before use and tested for high salts, nutrients value and E coli before application. Cow manure can have high levels of potassium, phosphorous and zinc.

Many farming activities burn off the organic matter of soils resulting in a decline in soil structure and soil fertility – requiring an ever-increasing amount of inorganic farm inputs to maintain yields. This includes but is not limited to monocropping, soil cultivation and over use of inorganic nitrogen fertilizers. A responsible GAP farmer will monitor both the organic matter level and the C:N ratio of soil annually and prepare a soil health program that builds up soil organic matter and then maintains it at optimum levels for maximum fertilizer efficiency, plant health and yields.

Organic fertilizers vary a great deal in content and it is important to know the exact chemical composition to be able to balance nutrient applications to the soil. Some organic fertilizers are high in phosphorous and potassium and one can reduce application of these nutrients fertilizers and save money. In addition, one must look at potential risk factors from organic fertilizers, for example: human pathogens, heavy metals, pesticide residues & toxic salts. If there is a risk attached to the organic fertilizer – these can be measured in the laboratory.

Organic matter breaks down to the more stable humus compounds in the soil. The term acid is used to describe humic compounds in the soil because they behave like weak acids. Humus compounds consist of three main substances (these cannot sadly be measured in the laboratory): - Fulvic acids – smaller humus molecules that are light yellow to yellow brown and soluble in water under all pH



Rabbits urine is becoming popular as a soil and foliar fertilizer. Rabbits urine can help prevent some leaf diseases. Rabbit pellets come in a nice easy to apply form.

conditions. These also provide and energy source for microbes. Humic acids – larger molecules, dark brown to black in color, more stable, soluble in water at pH>2. Humins – very large, complex stable molecules that are black, insoluble in water, less of an energy source and more of a soil stabilizer.

Humic & fulvic acid substances enhance plant growth positively and directly through physiological and nutritional effects. Some act as natural plant hormones (auxins and gibberellins) and are capable of improving seed germination, root initiation and nutrient uptake as well as being direct sources of N P and S. One of the most striking characteristics of humus substances is their ability to interact with metal ions, oxides, hydroxides, mineral and organic compounds including toxic pollutants, to form complexes.

By forming these complexes humus can dissolve, mobilize and transport metals and pollutants in the soil and contribute to a reduction in toxicity for example heavy metals and pesticides.

Organic fertilizers do improve soil and plant health and reduce chemical applications in the crop AND are important for reducing waste and for carbon sequestering. Many contain beneficial organisms that are great for promoting microbial activity in the soil and competing with pathogens. I heartily promote the use of organic fertilizers in farming but recommend that the fertilizers are tested for nutrient content and risk factors before use, to be able to assess how much to use and how much to reduce the inorganic fertilizer application by. To look for commercial organic fertilizers search <http://shambaza.com/organic-fertilizers>.



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Youth in Agribusiness

What they do not know is that farming is the backbone of many emerging economies in the world. The low level of involvement of youth in the agriculture sector is another challenge facing those that have interest in agribusiness.



The Youth in Agribusiness forum at Safari Park Hotel and Casino in Nairobi

Many youths tend to believe farming is a dirty and tiresome job and nothing good can come out of it other than bringing food on the table making them look for more lucrative economic career opportunities that are hard to get.

What they do not know is that farming is the backbone of many emerging economies in the world. The low level of involvement of youth in the agriculture sector is another challenge facing those that have interest in agribusiness.

Agriprofocus, an organization that was formed in 2005 in Netherlands but started in 2005 in Kenya has been in the forefront of realizing that this negative attitude by youth towards

farming comes to an end. Initially it was formed to bring funding to agriculture sectors but has expanded into bringing different stakeholders to look for opportunities, development, collaboration and finding solutions to enterprises. This year, the organization organized a forum for youth that takes place annually by bringing the youths who have ventured in agribusiness and local, regional and international stakeholders together working towards supporting the youth in the agri-food sector. The theme of this year's forum was investing in youth as the next frontier in agricultural transformation under the platform of Promoting Agribusiness Investment Network and Trade for Youth PAINT-Y. There have been various initiatives

existing towards supporting the youth with information, knowledge, experiences and expertise with the aim of transforming agriculture and food system in Kenya and giving the youth a platform of venturing into agricultural related careers.

The Embassy of the Kingdom of Netherlands in Kenya has been supporting the youths in the country to acquire needed skills and knowledge in agribusiness. They have supported 550 students to study in Netherlands with most of them choosing agriculture related courses. This will help them in acquisition of technology and new agricultural practices according to the representative from the Embassy.

Maureen Munjua, the Country Coordinator of Agriprofocus, says a lot

of investment has been made so far with over 30 projects put up to support the youth in agribusiness. There are donors investing money to fund these programs in terms of capacity building gaps and access to information and knowledge.

“The youths need to be supported in investment and policy making and helping them negotiate with stakeholders on how to grow their businesses and not by supporting them in one area or region which is the case that has been happening,” Madam Munjua explains. She adds that PAINT-Y positions itself as a neutral platform to facilitate linking, learning and collective influencing by stakeholders that support these youths at county, national and international levels.

PAINT-Y is uniquely putting the youth in the conversation rather than being in the conversation so as to facilitate co-creation and collaboration among the stakeholders including the youth to generate evidence, influence and shape the youth agenda within the agrifood ecosystem. It also provides the platform to young agripreneurs by providing linkage between stakeholders and promoting sharing and learning on successful models of supporting the youths in the ecosystem. This will establish a change maker platform where youths can showcase and share their stories to inspire and mentor others and continuously link entrepreneurs each year to members and partners that catalyze change for their businesses.

“The objective of having such a forum is to exchange experiences, share lessons and explore opportunities for collective action whereby more sustainable impact is possible if the different actors in the youth agribusinesses ecosystem are more effectively linked to work and learn together towards a collective impact,” Madam Munjua says.

The youth in agribusiness are faced by many challenges but

The Embassy of the Kingdom of Netherlands representative making her maiden speech during the PAINT-Y Forum at Safari Park and Casino Hotel in Nairobi.



the forum was to help them to get solutions of these challenges. Lack of sensitization, mentorship to those that have ideas of venturing in agribusiness, fear of loss and not getting access to markets and technical skills. The main challenge being not able to get enough money in growing their businesses.

The solution to these problems is almost getting realized like coming up with agribusiness incubators for various sectors in an academia perspective. They are also encouraged to do research before getting into production and having proposals for businesses so as to create thriving enterprises.

The youths have been urged to apply loans from government youth enterprises fund that are of interest rates so as to grow their agribusinesses. Speaking during

The youth in agribusiness are faced by many challenges but the forum was to help them to get solutions of these challenges. Lack of sensitization, mentorship to those that have ideas of venturing in agribusiness, fear of loss and not getting access to markets and technical skills

the forum at Safari Park Hotel in Nairobi, Benjamin Msungu, Youth Representative for Council of Governors said that the council is coming up with agribusiness incubation mentoring and upgrading of agricultural centers in the counties so as to motivate and accelerate implementation of youth in agribusiness.

Patrick Nderitu, the founder of Mwioko Community Based Organization, which facilitates farmers to access links and markets encourages the youth to invest in enterprises that will bring returns from their products. The organization helps in solving the frustrations on funding or financial by building up to the available resources from the members in terms of mobilization. It also focuses on facilitating farmers to produce, get access to funds and markets.

“In the villages there small groups known as chamas where people make money contributions for their earnings and we use them to capitalize and when the demand for credit grew as enterprise was growing we approached banking to help these people but it never worked and therefore saw the possibility of collapsing these chamas and their bank accounts and have one common account,” Mr. Nderitu explains.

Hass avocado farming; pests and diseases affecting avocados in Kenya



Over years, Kenya has been one of the leading avocado exporters with most farmers earning a decent living from this agro-enterprise. The most preferred type is Hass avocado, preferred over Fuerte avocado, primarily because Hass sells at higher prices. Hass also takes fewer years to mature. Another advantage of Hass avocado is because it has two harvest seasons in a year. Hass avocados are preferred by most consumers and grocers because of their better taste and longer shelf life. Avocado can generally grow well in all parts of the country except for the coastal areas due to salinity.

Ideal conditions for production of hass avocado

- **Temperatures**

The tree requires cool to warm temperatures, with the minimum not falling below 70 degrees Celsius and a maximum of 200 C (the optimum range is 150c to 250c).

- **Rainfall**

The rain should be an average of 1000-1600 mm a year and spread well throughout the year. Watering is crucial where rainfall is insufficient. Too much moisture promotes pests and diseases that tend to do well in wet conditions.

- **The soil**

In order for Hass avocado to flourish, the soil must be well drained and rich in minerals. The best soils are sand or alluvial loams, where the PH levels could be acidic or alkaline.

- **Sunshine**

Hass avocado trees do well outdoors where there is plenty of sunshine.

- **Attitude**

In Kenya, the most ideal height above sea level for avocado production is 2500m.



Cultivation Procedure Of Hass Avocado

- **Preparation of the land**

The land must be tilled before planting commences. There must be availability of well-decomposed manure and water back-up. If there is strong wind, make sure that the necessary wind breakers such as hedges are put in place.

- **Planting holes**

Tree spacing of 17ft x 17ft is preferred with an acre carrying an estimation of 150 seedlings. The spacing distance depends on various factors, such as soil fertility and climatic conditions. Also keep in mind that avocados have an extensive root system and can disturb the roots of other plants if planted too close. The holes must be 60 cm by 2ft. It is advisable to plant the trees in straight lines to enable the management and harvesting of crops.

- **Planting**

Planting must be done after the rain starts when the rain water has penetrated the ground in the right way. In each planting

hole you separate the upper soil and the other soil, then combine the upper soil with 20 kg of well rotten manure, remove the seed plant from the pot, keeping the basis and the soil structure intact and plant the seedling using the top soil mixture. If possible, plant it in a place protected from wind and frost, taking into account a lot of sunlight.

- **Watering**

If you plant avocado trees during the dry season, there is always the risk of sun damage because they do not absorb water properly when they are young. Water newly planted trees immediately, then two to three times in a week. However, the frequency must be reduced during the rainy season. The uniformity of the fruits is strongly influenced by the frequency of their irrigation, as noted in an article by Daily Nation of Saturday, November 4, 2017 by Leopold Obi. .

- **Pruning**

Pruning is done to maintain the shape and height of the tree and to remove broken parts of the tree. It is mainly done during the

early stages of growth, before flowering and after completion of the harvest. Pruning improves yield and ensures a superior tree structure.

- **Thinning**

Thinning means that some of the already formed fruit is removed in order to reduce the competition for nutrients, and thus guarantee high-quality fruit.

- **Fertilizer application**

Fertilizer application is aimed at adding the necessary nutrients to the fruits. Not all farms need this and some require different types of fertilizer. Some factors that determine the amount and type of fertilizer used include the growth phase, the climate, the characteristics of the soil fertility and the yield of fruit.

- **Control of pests and diseases**

It is worth noting that grafting greatly improves fruit resistance to diseases. Always look out for fungal problems such as white mildew in humid climates. Other preventive control measures include weed control, correct selection of plant material,



maintenance of optimal plant density and proper fertilizer application.

- **Weed control**

Weed control reduce competition for nutrients and water. Weed control is also seen as a means to control diseases and pests. Some of the strategies for weed management include mechanical cultivation, cover cropping and mulching.

- **Harvesting**

As mentioned earlier, Kenya Hass avocado has two harvest seasons per year, one from March to July and the other from September to February. The harvesting of the fruits is done manually. Avocados ripen on the tree and are normally harvested raw and ripen afterwards. The harvested fruits must be stored at a warm temperature to ripen evenly. Most are ripe and ready to eat after a day or two.

Pests and diseases affecting the hass avocado

PESTS

- **Mites:** Mites cause brown spots on leaves and fruits. They increase the leaf falls. They establish a web dates which appears as a silvery spot. Good farming procedures, including proper pruning and irrigation, are necessary to maintain their control. Note that insecticides are responsible for their expansion of these insects population. The use of horticultural oil is a recommended measure.
- **Insects Borers:** They tunnel into avocado trees, where they lay eggs. This causes branches to weaken and fall of. A preferred measure to prevent their spread is to cut out the infected branches immediately.
- **Lace-bugs:** Causing yellow spots on leaves, lace bugs result in damage of leaves. When the weakened leaves fall out, the fruits and the wood are exposed

to ultraviolet rays which are very destructive. Horticultural oils or pyrethrin are recommended for their treatment.

- **Thrips:** these causes leathery scars on fruits. They can be eliminated with pyrethrin. Organic mulch is also recommended to discourage the survival of these insects.
- **Caterpillars:** Caterpillars spread damage to fruit, flowers and leaves. Sprays of *Bacillus thuringiensis* are very effective; giving special attention to the folded leaves where the caterpillars tend to thrive.

DISEASES

A. Fungal diseases

- **Avocado root rot:** This is reported to be the most common and most serious disease, causing pale, wilted leaves and very small fruits. The disease, which is caused by the fungal pathogen *Phytophthora cinnamomi*, normally thrives in moist, poorly drained areas. Some measures such as hot water treatment of seeds and



- grafting can help prevent this.
- **Scab:** This disease is caused by *Sphaceloma perseae* fungus and attacks fruits, twigs and leaves. The symptoms are oval or irregular spots on the fruits. Poor drainage causes growth and spread. It is controlled with the use of copper-containing fungicides.
- **Anthraxnose:** Caused by pathogen *Colletotrichum gloeosporioides*, this affects the fruits, flowers and leaves, leaving dark spots and defoliation. Prevention of this disease involves pruning the dead branches of the affected tree before fungi produce spores and maintaining the correct conditions for the harvested fruits. It is controlled using copper-based fungicides.
- **Avocado black streak:** This tree infection causes black streaks on the bark. This disease can be well prevented by adhering to proper fertilization and irrigation practices.

- **Cercospora fruit spot: Fungi**
Pseudocercospora purpurea also affects the fruits, leaving small, light yellow spots that eventually turn brown on leaves and fruit. This disease mainly occurs with poor sanitation. It is controlled using copper-based fungicides.

B. Viral diseases

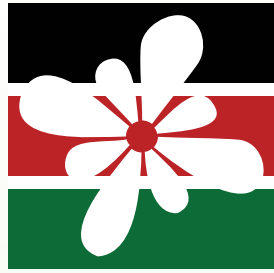
- **Algal leaf stain:** Caused by the virus *Cephalosporium virescens*, this disease affects the trees so that red spots are visible on the leaves, twigs and branches. Preventive measures include correct weeding and pruning. Serious cases can be treated with copper-based fungicides.
- **Sunblotch:** Virus Avocado sunblotch viroid, this is a much more serious condition of the trees and once contracted, it cannot be cured. It causes stunted growth, discoloration of fruits and the leaves and reduced yields. Prevention of this disease can be maintained through proper sanitation. In addition, since this disease can be transmitted via grafting, one must ensure that they purchase certified seedlings.

C. Bacterial diseases

- **Bacterial soft rot:** This causes a dark, stinking rot on the fruit. Once contracted, the disease cannot be cured. For this reason, it must always be a necessity to buy seeds that have been certified and maintain a high level of sanitation in all agricultural procedures.
 Hass avocado farming has a promising future and it is for this reason that many farmers in different parts of the country embrace it. Cultivation of Hass avocado is a journey that requires a lot of patience as it takes at least 2 years for the trees to mature and bear fruit. The results of this patience are undeniable owing to the growing demand and shooting prices of Hass avocado worldwide. The lifetime of Hass avocado tree is more than 50 years. Apparently in an article published by Vitalis Kimutai on April of this year, Beliot Langat, a Hass avocado cultivator in Bomet County, reported that he started the business with only Sh 20 fifteen years ago and over time he gets nearly Sh 300,000 per season.

National Farmers Awards 2018 judging results

S/No	County	Sub-County	Name of farmer	Score %	Overall position
Category : Small scale farm gearing to commercialization					
1.	Kericho	Bureti	Sweet Farm Dairies (C/o Gilbert Kipngeno Ngetich	76.6	1
2.	Bungoma	Kabuchai	Prof. Patrick Kafu	74.5	2
3.	Kiambu	Gatundu South	Mbucho Farm (John Mbucho Macharia	73.3	3
Category : Small scale farms fully commercialized					
1.	Nyandarua	Kinangop	Phina Flowers (C/o Phillip Thuo	78.9	1
2.	Narok	Transmara West	Meguarra Farmers Cereals Cooperative (C/o Peter Sangare	75.0	2
3.	Nakuru	Gilgil	Unloi Fram (Martin Gathogo,	73.8	3
Category : Large Scale fully commercialized (more than Ksh.50M)					
1.	Laikipia	Laikipia North	Barletta Holdings Ltd (C/o Chris Mwathi	80.0	1
2.	Bomet	Kipkelion East	Konvest Diaries (Daudi Chepkwony	79.0	2
3.	Kajiado	Isinya	Latia (C/o Naftali Mwangi:	78.5	3
Category : Women in Agriculture					
1.	Nakuru	Naivasha	Popsy Judy Farm (Judy Wangechi Njenga,	79.0	1
2.	Nyeri	Tetu	Lydia Nyokabi Kagema (Lynka Farm	73.0	2
3.	Kisii	Bobasi	Phyllis Kemunto Moses	66.4	3
Category :Youth in Agriculture					
1.	Kericho	Belgut	Amazon Farm (C/o Anthony Kipyegon Rotich,	72.9	1
2.	Laikipia	Laikipia North	Ledge African Ltd (C/o Robert Nderitu Kiama	67.0	2
3.	Kirinyaga	Kirinyaga East	Gladys Ruguru Muriuki (66.6	3
Category: Physically challenged persons in Agriculture					
1.	Kirinyaga	Kirinyaga Central	Habel Ndiga Karari	71.7	1
2.	Bomet	Sotik	Augustine Langat	60.7	2
3.	Kisii	Nyaribari Masaba	Elijah Otara	57.9	3
Category : Large scale agro-input dealers (more than Ksh.5m)					
1.	Kisii	Nyaribari Masaba	Josnac Agrovet Company Ltd (C/o Dr. Joseph Monda:	87.5	1
2.	Kirinyaga	Mwea East	Farmers Price Centre (C/o Peter Karanja Ndungu	85.9	2
3.	Laikipia	Laikipia East	Laikipia Pharmacy (Agrovet Division) (Nancy Wanjru Wanjohi	71.0	3
Category : Small scale agro-input dealers (less than Ksh.5M)					
1.	Nakuru	Gilgil	Mispar Agrovet (Joseph Kanyiri Kuria	75.5	1
2.	Bungoma	Sirisia	Gladys Carolyne Nyongesa	70.0	2
3.	Kirinyaga	Mwea East	Limazone Enterprises (John Mwenda Riungu C/o	69.2	3



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Hortinews Directory



Associations

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 Fresh Produce Exporters Association Of Kenya
 Tanzanian Horticultural Association
 Ethiopian Horticulture Producers Exporters
 Kenya Horticulture Council

Country

Kenya
 Kenya
 Tanzania
 Ethiopia
 Kenya

Phone

254-733639523
 254-20 205160333
 255 (27)2544568
 251-116636750

Email

info@kenyaflowercouncil.org
 info@fpeak.org
 info@taha.or.tz
 info@ethionet.et

Flower Farms in Kenya

Region	Altitude
Lake Naivasha Region	6178ft
Nakuru Region	6070ft
Nairobi Region	5515ft
Athiriver-Kajiado Region	5649ft

Region	Altitude
Mt.Kenya Region	6358-7057 ft
Limuru-Rumuruti-Olkalau Region	6024-7802 ft
Kericho-Kitale-Eldoret Region	6060-6995 ft
Thika-Juja-Kiambu Region	5649 ft

Breeders / Propagaters

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	Tel:+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	Tomer Weiss	+254 (0)715 631 373	tomersolo@soloplant.co.ke

1. Lake Naivasha Region

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	Cut flowers	Mr. Gary	0721 237936	
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 flowers	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	Tel: +254722431170	hamwe.production@kariki.biz
Sun Buds	Hypericum	Mr. Paul Kamau	Tel:+254 728339953	sunbudsltd@gmail.com
Oserian Development Company	Rose & Fillers	Mary Kinyua	Tel: +254 721299008	mary.kinyua@oserial.com
Oserian Flowers Limited	Carnations & Fillers	Mr.Hamish Ker	Tel: +254 722204701	md@oserialflowers.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	+254(0)72 220 4489	info@zuubier.com
De Ruiters	Roses	Fred Okinda	+254(0)722 579204	fred.okinda@deruiter.com
Finlay's Kingfisher	Roses	Mr. Charles Njuki	Tel: +254-724391288	Charles.njuki@flamingo.net
Galaxy	Roses	Mr. Kiran		kiran@vegpro-group.com
Groove	Roses	Mr.John Ngoni	Tel: 0724448601	groovekenya@gmail.com
Harvest Flowers	Roses	Mr Phanael Ochunga	0722 506026	phanael.ochunga@gmail.com
Karuturi Flowers	Roses	Mr.Sylvester Saruni	Tel: +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	Tel:0722 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	0786 143515	chakra@pandaflowers.co.ke
Finlay's Flamingo	Roses and Fillers	Mr.Peter Mwangi	Tel:+254 722204505	peter.mwangi@flamingo.net
Colour Crops	Summer Flowers			
Esmeralda Breeding	Summer Flowers	Mr.Loui Hooyman	31-297-385444	info@esmeraldabreeding.com
Multgrow Investments	Summer Flowers	Mr.Peter Murimi Mbugua	254-724-977259	peter_murimi@yahoo.com
Kentalya	Cut Flowers	Mrs.Lynette	0733 549773	lynette@kentalya.com

2. Nairobi Region

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	254-702-344047	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 Venme	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 Flowers		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	Sam	254-0721993857	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@maganafloowers.com
Magnate Flowers	Roses	Mrs.Gladys Muthoka	254-722-777051	magnateflowers@gmail.com
Mzurrie Flowers	Roses	Mrs.Irne Njeru	254-722-203630	irene@winchester.co.ke
Shallimar Flowers Ltd	Roses	Mrs.Elizabeth Wahogo	254-738-391832	elizabethw@eaga.co.ke

3.Mt.Kenya Region

ORGANISATION	LOCATION	PRODUCT	CONTACT PERSON	PHONE	EMAIL
Mount Kenya Alstroemeria	Nanyuki	Cut Flowers	Mr.Edwin Van Der Veen	254-718-240581	info@mountkenyaalstroemeria.co.ke
Bondet	Nanyuki	Erygium	Richard Fernandes		

Kariki Limited	Nanyuki	Hypericum		0722 50 99 19	info@kariki.biz
Live Wire Ltd	Nanyuki	Hypericum And Lilies	Mr.Esau Onyango	0728 606872	info@livewire.co.ke
Finlays Sirimon	Timau	Lilies	Ms.Purity Thigira	0733606411	purity.thigira@finlays.net
Batian Fowers	Timau	Roses	Mr.G.Muriungi/Dirk Looj	0720 102237	dirk@batianflowers.com
Bloomingle Dale Roses	Timau	Roses	Mr.Sunil Chaudhari	0732 373322	sunil@bloomingle daleroses.com
Bogmack Farm	Timau	Roses	Mr.Anderson	0722 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	0715 727991	topper@lolomarik.com
Protea Farm	Timau	Roses	Mr.Philip		info@lobelia.co.ke
Sunland Roses	Timau	Roses	Mr.Peter Viljoen	254-702-095696	sales@sunlandroses.com
Tambuzi	Nanyuki	Roses		+254 (0)722 716 158	tambuzi.sales@tambuzi.co.ke
Timaflo r Ltd.	Timau	Roses			info@timaflor.nl
Timau Flair	Timau	Roses	MR.Philip Ayiecha	254-723383736	
Uhuru Flowers	Timau	Roses	Mr. Ivan Freeman	Tel:+254722863252	ivan@uhuruflo wers.co.ke
Vegpro-K Ltd	Timau	Roses	Mr.Vivek Sharma		vivek@vegpro_group.com
Kisima	Timau	Roses and Lilies	Mr.Martin Dyer	+254 (0)722 509 830	info@kisima.co.ke

4. Nakuru Region

ORGANISATION	LOCATION	PRODUCT	CONTACT PERSON	PHONE	EMAIL
Bliss Flora Ltd.	Nakuru	Cut Flowers.	Mr.Shivaji Wagh	254-720-895911	shivaniket@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	shivaniket@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@mauflo ra.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	Tel: 720519397	info@xflora.net
Sian Agriflora (Sian Roses)	Nakuru	Roses/Lilie	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	
Flora Ola	Solai		Mr.Wafula	Tel: 0708382972	floraolaltd@gmail.com

5. Thika -Juja-Kiambu Region

ORGANISATION	LOCATION	PRODUCT	CONTACT PERSON	PHONE	EMAIL
Zena Roses	Thika	Carnations,Roses	Mr.Rakesh	Tel: 0724631299	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	Tel: 733603530	Daniel.kisavi@sygenta.com
Munyu Growers	Thika	Flower Grower & Exporter	Mr.Muthom Ngaru	254-721-956307	munyugrowers@gmail.com

Riverdale Blooms Ltd swiftkenya.com	Thika	Flower Grower & Exporter		Mr.Antony Mutugi	020 2095901	rdale@
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	Tel:+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	Tel:+254 733625297		tom@pentaflowers.co.ke
Simbi Roses Ltd.	Thika	Roses	Ms.Pauline Nyachae	Tel: +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	Tel: 0675854406		everflora@dmbgroup.com
Kenflora	Kiambu	Roses	Mr,Aleem Abdul	254-722311468		info@kenflora.com
Valentine Kibubuti	Kiambu	Roses	Mrs. Suzan Maina	Tel: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 Growers	Mr.Brian Wahome	254-734-424648		brianwahome@transebel.co.ke

6. Kajiado – Athi-River Region

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	Tel: +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@afriscan.co.ke
Kordes Roses East Africa Ltd info@kordesroses-ea.com		Masai West Road	Roses	Mr.Christian Meuschke	254-0733 363642
Ngong Roses	Ngong	Roses	Mr. Charles Maina	020 2700660	ngongroses@capstoneonline.co.ke

7.Limuru-Rumuruti-Olkalau Region

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 Wanbui 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	

8. Kericho-Eldoret-Kitale

ORGANISATION	LOCATION	PRODUCT	CONTACT PERSON	PHONE	EMAIL
Maji Mazuri	Eldoret	Roses		+254 722 203631	info@mzurrieflowers.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	Cut Flowers	Mrs.Mercy Njuguna	254-721-637311	mercy.njuguna@panocal.co.ke



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.schrier@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	Gayaza-Zirobwe Road	Peter Benders	0757 777700	pbenders@xclusiveuganda.com



FLOWER AND VEGETABLES FARMS IN TANZANIA

lower Farms in Tanzania

NAME	PRODUCT	LOCATION	CONTACT PERSON	PHONE	EMAIL
Kilifi Flora	Roses	Arusha	Jerome Bruins	255 27-2553633	jbruins@habari.co.tz
Mt. Meru	Roses	Arusha	Tretter	255 27 2553385	office@mtmount-meru-flowers.com
Tengeru Flowers	Roses	Arusha		255 27 2553834	teflo@africaonline.co.tz
Hortanzia	Roses	Arusha	Michael Owen	255 784 200 827	hortanziagm@cybernet.co.tz
Kilimanjaro Flair	Hypericums	Arusha	Greg Emmanuel	255 784 392 716	greg@kilimanjaroflair.com
Multi Flower Ltd	Crysanthemums	Arusha	Tjerk Scheltema	255 27 255 3138	
Fides	Crysanthemums	Arusha	Greg Emmanuel	255 27 255 3148	fides@habari.co.tz
Dekker Bruins	Crysanthemums	Arusha	Lucas Gerit	255 27 255 3138	info@tfl.co.tz
Arusha Cuttings	Crysanthemums	Arusha	Tjerk Scheltema	255 27 250 1990	tjerk@arushacutting.com



ETHIOPIAN HORTICULTURE PRODUCERS EXPORTERS

Flower Growers in Ethiopia

NAME	PRODUCT	LOCATION	CONTACT PERSON	PHONE	EMAIL
Lisen Flowers	Roses	Holeta	Peter Linsen		elinsensose@ethionet.et
Hanja	Roses	Holeta	Holeta		peter.pardoen@karuturi.com
Alliance Flowers	Roses	Holeta	Navale		navele@nehainternational.com
Ethio Dream Rishi	Roses	Holeta	Holeta	011 23 72335	holeta@jittuhorticulture.com
Holeta Roses Navale	Roses	Holeta	Holeta		navele@nehainternational.com
Supra Flowers	Roses	Holeta	Kaka Shinde	0911 353187	kakashinde@rediffmail.com
Agriflora	Roses	Holeta	M.Askokan	0922 397760	flowers@ethionet.et
Ethio-Agricert	Roses	Holeta	Alazar	0910 922 312	alazar@yahoo.com
Addis Floracom P.L.O	Roses	Holeta	Kitema Mihret	0912 264190	tasfaw@addisflora.com
Enyi-Ethio	Roses	Sebata	Teshale	0911 464629	enyi@ethionet.et
Lafto Roses	Roses	Sebata	Andrew Wanjala	0922 116184	irrigation@laftorose.com
Eden Roses	Roses	Sebata	Vibhav Agarwal	0930 011228	vaibhavagarwal1@hotmail.com
Ethio-Passion	Roses	Sebata			roshanmuthappa811@gmail.com
Golden Rose	Roses	Sebata	Sunil		
E.T Highlands	Roses	Sebata		0911 502147	bnf2etf@ethionet.et
Sharon Flowers	Roses	Sebata			saronfarm@ethionet.et
Selam Flowers	Roses	Sebata	Etsegenet Shitaye	0913 198440	etsgshita@yahoo.com
Joy Tech	Roses	Debra Zyeit	Mulugeta Meles	0911 302804	mulugeta@joytechplc.com
Dugda Froliculture	Roses	Debra Zyeit	Sayalfe Adane	0911 504893	general@dugdaflora.com.et
Minaye Flowers	Roses	Debra Zyeit	Eyob Kabebe	011-9728667/8/9	minayefarm@ethionet.et
Bukito Flowers	Roses	Debra Zyeit	Anteneh Tesfaye	0911 615571	
Oilij	Roses	Debra Zyeit	Bas Van Der Lee	0911 507307	b.vanderlee@oilijethiopia.com
Yassin Flowers	Roses	Debra Zyeit	Tesfaye Gidisia	0911 897856	kamevision@yahoo.com
Z.K Flowers	Roses	Debra Zyeit	Abebe Mamo	911526529	abemic/2006@yahoo.com
Friendship Flowers	Roses	Debra Zyeit	Edwin	(251) 911304967	friendship.flowers@yahoo.com
Evergreen Farm	Roses	Debra Zyeit	Hiwot	0912 125065	Hiwot.Ayaneh@yahoo.com
Rainbow Colours	Roses	Debra Zyeit	Tedessa Kelbessa	0911 389729	rainfarm@yahoo.com
Sher	Roses	Ziway	Ramesh Patil 0912 131940		braam.roses@hotmail.com
Braam Farm	Roses	Ziway	Ben Braam 0920 746270		
Sher Koka Farm	Roses	Ziway	Alemitu Biru 0912 097824		
Ziway Roses	Roses	Ziway	Ermias Solomon	0921 094373	ermiasziwayroses@yahoo.com
Herbug	Roses	Ziway	Hubb	hubb@herburgroses.nl	
Aq	Roses	Ziway	Wim	wimjr@aqroses.com	
Margin Par	Hypericum	Ziway	Hayo Hamster	251 911505845	marginpar@ethionet.et
Tal Flowers	Gypsophila	Ziway	Uri	uridago@walla.co.il	
Ewf Flowers	Hydragium	Ziway	Humphrey 0920 351931	production-manager@ewf-flowers.com	
Red Fox	Pelargoniums	Ziway	Michael Zevenbergen	0911 490023	m.zevenberge@ethiopia.redfox.de
Abssinia Flowers	Hypericum	Ziway	Sendafa	ggh_link@ethionet.et	
Ethiopia Cuttings	Geraniums	Koka	Scoff Morahan		scott.moharan@syngenta.com
Florensis Ethiopia	Buding Plants	Koka	Netsanet Tadasse		flrdnsis@ethionet.et
Maranque	Crysenthemums	Merjetu	Mark Drissen	(251) 221190750	md@maranqueplants.com
Freesia Ethiopia	Freesia And Statice	Sebata	Ronald Vijverberg	(251) 115156259	freesia@ethionet.et
Yelcona	Hypericum	Sebata	Andreas	0921 146930	Andreasndieolens@hotmail.com

Fruit, 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, Babycorn	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 And Herbs	Sales Team	254-203573000	naturesown@swiftkenya.com
Canken International Ltd	Eldoret	Chillies And Fruits	Mr.Mohamed	020-222736367	canken@cankencargo.com
Darford's 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 And Roses	Import And Export Manager		020-3542012 pjdavflowers@wananchi.com
Dominion Vegfruits Ltd	Nairobi	Fruits And Vegetables	Mr.John Mairura	020-823002	vegfruits@wananchi.com
East African Growers Ltd	Nairobi	Fruits And Vegetables	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 And Vegetables	Mr.John Karuga F	020-3542009	smuhoho@everest.co.ke
Fian Green Kenya Ltd	Nairobi	Fruits And Vegetables	Mr.Francis Thuita	020-826157	info@fiangreens.co.ke
Fresh An Juici Ltd	Nairobi	Fresh And Vegetables	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 And Vegetables	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	Vegetables And Fruits	R.Chaudhry	020-82749/50	info@globalfresh.co.ke
Green Kenya Organization	Nairobi	Onions And Tomatoes	Charles Butiko	254-723119111	greenkenya28@gmail.com
Greenlands Agro Producers Ltd	Nairobi	Fruits And Vegetables	Mr.G.Murungi	020-827080/1/2	murungim@greenlands.co.ke
Highlands Cannners Ltd	Nairobi	Fruits And Vegetables	Sales Manager	020-8564048	info@highlandcannners.co.ke
Hillside Green Growers Ltd		Fruits And Vegetables	Ms.Eunice Mwongera	020-2397353	eunice@hillsidegreen.com
Homegrown Kenya Ltd	Nairobi	Flowers And 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 And Spices	Mr.Bandali	254-7412229435	jakal@ikenya.com
Jungle Macs EPZ Ltd	Thika	Fruits And Vegetables	Sales Manager	020-2451841	info@junglemacadamias.com
Jetlak Foods Ltd	Ruiru	Fruits And Vegetables		254-722754181	mail@jetlak.com
Indu Farm Epz Ltd	Nairobi	Fresh Fruit And 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 And Vegetables	Mr.Manu Dhanani	020-2517979	khe@khekenya.com
Kandia Fresh Produce Suppliers Ltd	Nairobi	Fruits And Vegetables	Ms.Lucy Mundia	020-3500866	kandia@swiftkenya.com
Kenya Orchards Ltd	Nairobi	Fruits And Vegetables	Sales Manager	254-2054161	
Keitt Exporters Ltd	Nairobi	Fresh Fruit And Vegetables	Asif Aman	020-822829	asif@keitt.co.ke
Mace Foods Ltd	Eldoret	Vegetables	Sales Manager	254-720391290	info@macefoods.com
Mugama Farmers	Murang'a	Vegetables	Sales Team	254-728-358211	mugamaunion@yahoo.co.uk
Makindu Growers And Packers Ltd	Nairobi	Passion Fruit	Mr.O.P.Bij Okra	020-822812/196	info@makindugrowers.co.ke
Meruherbs		Organic Producers	Marketing Manager	254-20-4442081	meruherbs@meruherbs.com
Muount Elgon Orchard Ltd	Kitale	Orchards	Bob Andersen	254-5431352	info@mtelgon.com
Mboga Tuu Ltd	Nairobi	Chillies And Vegetables	Mr.J.Kent	020-3877988	mtl@wananchi.com
Mixa Foods And Beverages	Kisumu	Fruits And Milk	Charles O.Odira	254-733-714584	info@mixafoods.co.ke
Mosi Ltd	Juja	Fruits	Rose Wahome	254-722204911	mwaiwahome@mosiflowers.com
Migotiyu Plantations Ltd	Nakuru	Herds And Seed Production	Mr. Rao	051-2214898	alphegaisal@wananchi.com
Namelok Exotic (K) Ltd			Mr. Sinkeet	0724-743258	info@namelokexotic.com
Njambiflora Ltd		Vegetables	Njambi	020-822506/7	njambiflora@yahoo.co.uk
Nicola Farms Ltd	Nanyuki	Fresh Fruit And Vegetables	Ms. Grace Wanjiku	020-2048874/76	marketing@nicola.co.ke
Olivado Kenya EPZ Ltd	Nairobi	Avocado	Nairobi General Managers	020-710-535303	gh@tanlay.com
Saw Africa EPZ Ltd	Thika		General Manager	254-722531106	wainana_patrick@yahoo.com
Sacco Fresh Ltd	Nairobi	French Beans	Mr.Muia	020-824687/8	info@sacco-fh.com
Shree Ganesh Ltd	Nairobi	Vegetables And Onions	Mr. Kanji Kalyan Patel	020-80243645	meleka@freshanjuici.co.ke
Sian Agiflora Kenya Limited	Nairobi	Calla Lillies	Ms. Angelina Mangat	020-822220	rano@sianexports.com
Syngenta EA Ltd	Nairobi	Seeds	Sales Manager	254-203222800	synjenta.east_africa@synjenta.com
Sunripe (1976) Ltd	Nairobi	Fresh Fruit And Vegetables	Mr. Hasit Shah	020-822518/822879	info@sunripe.co.ke
Value Pak Foods Ltd	Nairobi	Fruits And Vegetables	Mrs. Patel	020 2695633	valuepak@wananchi.com
Valentine Growers Co Ltd	Kiambu	Vegetables	Sales Team	254-720203765	info@valentine-flowers.com
Vegpro Kenya Ltd	Nairobi	French Beans	Mr. Bharat.Patel	020-822831-4	bharat@vegpro-group.com
Wamu Investments Ltd	Nairobi	Fresh Fruit And Vegetables	Mrs. Peris Muriuki	020-822441	peris@wamu-investments.com

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