

> 国际植物 保护公约

International Plant Protection Convention

Convention internationale pour la protection des végétaux Международная конвенция по карантину и защите растений

Convención Internacional de Protección Fitosanitaria



IPPC High-level Symposium on Cooperation of Phytosanitary Measures among the Chinese Initiative "One Belt" Countries

Xi'an, Shaanxi, China, from 27-to 30 May 2019

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- KEPHIS is a state corporation offer regulatory services in agricultural sector.
- KEPHIS is the official National Plant Protection Organisation (NPPO) of Kenya.
- We are a signatory to the International Plant on Convection







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Macro data information on Kenya

- Total area of 577,165.90 Km²
- 48.46 million (2016) as per the World bank estimates of 2016

Main production in the country	Quantity produced in Metric Tonnes
Sugarcane	6,849,000
Maize	3,969,806
Irish potatoes	1,767,679
Wheat	3,969,806
Bananas	1,538,000
Cassava	1,538,000
Beans	681588
Tea	397,000



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Macro data information on Kenya-Imports

Imported crops	Weight in metric tonnes
Wheat	1,449,000
Palm oil	515,000
Maize	485,977
Rice	459,000
Apples	15,000
Oranges and mandarins	13,000
Sorghum	108,000
Millet	25,000



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Exports of agricultural produce

- Main exports; Cut flowers (Roses, Carnations, Gypsophilla, Hypericums etc.), fruits (Avocado, passion and mango), plants for planting (Herbaceous and non-herbaceous plants) and herbs
- The major ports of entry include JKIA, Mombasa and all designated boarder points. The organogram of the NPPO include the board of directors at the top, the managing director, general managers, heads of departments and the regional managers and officers in charge for regional offices.



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Phytosanitary legal framework and list of regulated pests

- Constitution-Supreme law recognizes Agriculture
- KEPHIS was established in 1996 under legal notice number 305
- KEPHIS Act 2012 This is an act of parliament which establishes the NPPO and its functions
- The Plant Protection Act CAP 324, which makes provision for the prevention of the introduction and spread of harmful pests and diseases. The act describes inspection process and the role of an inspector.
- CAP 326 –Seed and plant varieties Act
- Legal notice 108 (The plant protection (importation of plants, plant products and regulated articles) rules, 2009)



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Functions of KEPHIS

Seed certification

Phytosanitary Services

Analytical Chemistry services

Plant variety protection



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Functions of KEPHIS

- 5a) Regulate matters relating to plant protection......
- b) administer and enforce sanitary and phytosanitary measures and plant quarantine control
- d) establish service laboratories to monitor the, quality and levels of toxic residues in agro-inputs, irrigation water, plants, soils and produce
- g) undertake plant variety testing and description, seed certification and plant quarantine control



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Functions of KEPHIS

- e) be the principal advisor to the Government on issues relating to seeds and planting material;
- g) undertake plant variety testing and description, seed certification and plant quarantine control
- i) in consultation with other relevant agencies, develop and implement standards for seed and plant materials
- j)implement and enforce national biosafety regulations on the introduction and use of genetically
- k) regulate import and export of plants and plant materials;
- o) be the liaison office for international conventions plant variety protection, plant protection,



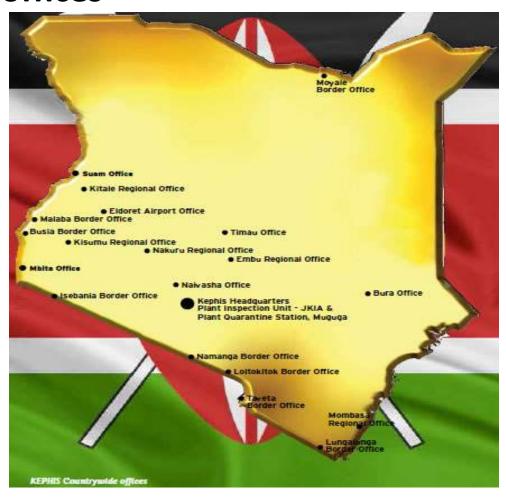
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KEPHIS offices





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Kenya surveillance programme: An overview of surveillance and management of non-compliances

- Every year the NPPO in its work plan gives priority for surveillance activities to determine occurrence and distribution of regulated pests within Kenyan territories.
- The NPPO does surveillance to determine the occurrence of pests or the extent of pests
- The NPPO undertook surveillance of Xylella fastidiosa to determine occurrence and distribution in Kenya. This was done to address compliance to export of plants to the European Union.
- Other surveillances include surveillance for Thrips Palmi ,Ralstonia solanacearum in potatoes, FCM (Thaumatotibia leucotreta), Fruit flies (Bactrocera spp.), Bemisia tabaci, Fall Army Worm, Maize Lthal Nectosis disease



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Kenya surveillance programme: An overview of surveillance and management of non-compliances

- To manage regulated pests, the NPPO currently is partnering with farmers to establish PFPPs in order to enhance compliance to export markets. There are programs of establishing PFAs for production of mangoes against fruits flies and PFPPs on chilies in regard to the false codling month.
- Management of non compliances is done both for imports and exports
- Imports- treatment, destruction or reship at owners cost
- Exports- Root cause analysis, corrective action, audits
- Use of integrated pest management and systems approach



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Emerging pests

- Examples of recently emerging pests in Kenya include the Fall armyworm (Spodoptera frugiperda) and, Maize Lethal Necrosis Disease (MLND), Tuta absoluta, The two pests have become a challenge in the production of maize and chillies in Kenya.
- They are also a threat to export of plant produce to Kenya's traditional markets such as the EU,UAE owing that they are regulated pests in the EU and over use of pesticides leads to non-compliance in MRL requirements.
- Due to challenges on food safety, farmers are advised to grow chillies in PFPPs and to use food safe options like pheromone traps.



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Maize Lethal Necrosis disease







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Tuta Absoluta





- Reported in 2014
- Awareness was done
- The pest is still a challenge
- use of pheromone trap and chemical have reduce the damage



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Opportunities and challenges in Phytosanitary Measures

- Kenya has top notch expertise in most science and agricultural disciplines which can be harnessed on implementation of phytosanitary matters. The NPPO has capacity to undertake PRA and surveillance which are critical in implementation of phytosanitary measures.
- As a challenge, the NPPO implements old legislations which need review to incorporate current issues.
- The NPPO is not well resourced to carry out domestic quarantine, pest control and eradication. Reduced government funding and resourcing also hinders development of specialized diagnostic services for the NPPO
- Collaboration with other organizations in fund raising for specific activities



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Cooperation

- IPPC
 - Capacity in training of technical staff
 - Presence in committees and Expert working groups
- Belt and Road countries
 - Collaborations in PRAs in order to open markets for Kenya's plant produce
 - Training collaborations in professional courses



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Collaborations

- Collaborations in PRAs in order to open the Chinese market for Kenya's plant produce e.g.. Fresh Avocado,
- Share import requirements for Surveillance, Sesame, Green beans(French beans), Peas, Capsicum, Sugar snaps, Baby corn, Mangoes, Passion fruits
- Funding collaboration to equip laboratories for enhanced diagnosis
- Specialized training collaboration including Higher Education (Bachelors, masters and PHD program) for the NPPO staff