

## Kenya Maize Lethal Necrosis The Growing Challenge In

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### Kenya Maize Lethal Necrosis The

The Kenya Agricultural and Livestock Research Organization (KALRO) has developed two maize varieties that will help contain the spread of the Maize Lethal Necrosis (MLN) disease and fall army worm which have adversely affected maize production in the country.

### New maize breeds to contain Maize Lethal Necrosis - Kenya ...

Maize lethal necrosis (MLN) disease in Kenya and Tanzania: Facts and actions. January 29, 2013. A serious new disease of maize appeared in the farmers' fields in eastern Africa in 2011. Called maize lethal necrosis (MLN; or corn lethal necrosis, CLN), it can devastate maize crops. The disease is difficult to control for two reasons: It is caused by a combination of two viruses that are difficult to differentiate individually based on visual symptoms.

### Maize lethal necrosis (MLN) disease in Kenya and Tanzania ...

Maize lethal necrosis disease (MLN disease, MLND, corn lethal necrosis) is a viral disease affecting maize (corn) predominantly in East Africa, Southeast Asia and South America, which was recognised in 2010.

### Maize lethal necrosis disease - Wikipedia

Maize lethal necrosis was first identified in the USA in 1976 ( Niblett and Caflin, 1978 ). The disease is caused by a combination of two viruses, Maize chlorotic mottle virus (MCMV) and Sugarcane mosaic virus (SCMV), a pathogen prevalent in many parts of Kenya affecting cereal crops.

### Maize lethal necrosis disease - CABI.org

For more than a decade, Maize Lethal Necrosis Disease (MLND) has ravaged crops causing farmers to incur huge losses and threatening food security. Kenya Seed Company (KSC) researchers through partnerships have developed a superior maize variety that can withstand the disease.

### Agency unveils seed resistant to disease | CIMMYT

By October 2012, a study team sent by CIMMYT and the Kenya Agricultural and Livestock Research Organization (KALRO) confirmed the disease to be maize lethal necrosis (MLN). MLN is a disease caused by the synergistic combination of Maize Chlorotic Mottle Virus (MCMV) and any from the

potyvirus family, in this case Sugarcane Mosaic Virus (SCMV).

### **Maize Lethal Necrosis: Building a comprehensive response ...**

The Maize Lethal Necrosis Disease (MLND) is a result of a combination of two viruses, the Maize Chlorotic Mottle Virus (MCMoV) and any of the cereal viruses in the Potyviridae group, like the Sugarcane Mosaic Virus (SCMV), Wheat Streak Mosaic Virus (WSMV) or Maize Dwarf Mosaic Virus (MDMV). The double infection of the two viruses gives rise to what is known as MLND, also referred to as Corn Lethal Necrosis (CLN).

### **Maize Lethal Necrosis Disease (MLND) - A snapshot : FAO in ...**

The spread of Maize Lethal Necrosis (MLN) in the maize growing regions of Eastern Africa has intensified since the first outbreak was reported in September 2011 in Kenya. FAS/Nairobi estimates that the disease will reduce Kenya's estimated maize production by about 10% during the 2014/2015 marketing year.

### **Kenya Maize Lethal Necrosis - The growing challenge in ...**

The maize lethal necrosis (MLN) artificial inoculation screening site in Naivasha, Kenya will begin its phenotyping (screening/ indexing) cycle of 2020 at the beginning of January 2020 and in four other intervals throughout the year. Interested organizations from both the private and public sectors are invited to send maize germplasm for screening.

### **Kenya » CGIAR Research Program on MAIZE**

2020 screening cycle for deadly MLN virus in Kenya - April Planting. International Year of Plant Health 2020 Dr. Suresh, L.M. (CIMMYT) Feb 29: The maize lethal necrosis (MLN) artificial inoculation screening site in Naivasha, Kenya will begin the second interval of its phenotyping (screening/ indexing) cycle of 2020 at the beginning of April 2020.

### **MLN Diseases portal**

A centralised maize lethal necrosis disease screening facility established in Naivasha five years ago has released 15 disease-resistant hybrid maize varieties in Kenya, Tanzania and Uganda. After...

### **Hybrid maize resists lethal necrosis - Daily Nation**

New genetic mapping study offers hope of resistance to maize lethal necrosis Written by jajohnson. Posted in Featured, News. Maize crop infected with maize lethal necrosis disease in...

### **Kenya - MAIZE Development**

What is the current situation on the spread and control of Maize Lethal Necrosis Disease in Kenya and eastern Africa? What are its effects on food security? A recent survey indicates that the...

### **Fighting maize lethal necrosis disease - Daily Nation**

Maize lethal necrosis disease was reported in the major maize growing regions of Kenya (Fig. 1). Counties in the south of the Great Rift Valley region (Kajiado, Bomet, Narok and Baringo) recorded the highest incidences of MLN as documented in Table 1.

### **Occurrence, genetic diversity, and recombination of maize ...**

In September 2011, a serious disease outbreak, later diagnosed as maize lethal necrosis (MLN), was reported on maize in Kenya. The disease has

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since been confirmed in Rwanda and the Democratic Republic of Congo, and similar symptoms have been reported in Tanzania, Uganda, South Sudan, and Ethiopia.

### **Maize Lethal Necrosis (MLN), an Emerging Threat to Maize ...**

Using serological (antibody-based assays) and genome sequencing tools, USDA ARS and OARDC scientists identified Maize chlorotic mottle virus and another virus, Sugarcane mosaic virus, in diseased maize. Together, the two viruses form a disease complex, Maize lethal necrosis, which was determined to be the cause of the crop losses.

### **Devastating Maize Disease Emerges in East Africa | Plant ...**

Tag: maize lethal necrosis. 2019 screening cycle for deadly MLN virus in Kenya – April Planting. Written by jajohnson. Posted in Featured, News. ...

### **maize lethal necrosis - MAIZE Development**

Maize lethal necrosis (MLN), a complex viral disease, emerged as a serious threat to maize production and the livelihoods of smallholders in eastern Africa since 2011, primarily due to the introduction of maize chlorotic mottle virus (MCMV). The International Maize and Wheat Improvement Center (CIMM ...

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