



## Disease: Corn (maize) Northern Leaf Blight (Northern Leaf Blight)

### Explanation (English):

Northern Leaf Blight (NLB), caused by the fungus *Exserohilum turcicum*, is a significant disease of maize worldwide.

It primarily affects the leaves, causing characteristic lesions that begin as small, grayish-green spots.

These lesions elongate, becoming tan to grayish-brown with a chlorotic (yellowish) halo.

Severe infections can lead to extensive leaf damage, reducing photosynthesis and significantly impacting yield.

The fungus survives in infected crop debris and seeds, serving as a primary inoculum source for the next growing season.

Favorable conditions for disease development include high humidity, temperatures between 20-30°C (68-86°F), and wind.

Disease severity varies greatly depending on the maize cultivar's susceptibility, environmental factors, and the level of infection.

### Explanation (Hindi):

उत्तरांचल पत्तिका (NLB), *Exserohilum turcicum* द्वारा उत्पन्न होता है, मक्का के पत्तियों पर प्रमुख रूप से फैलता है।

### Precautions (English):

**Resistant Varieties:** Plant maize hybrids with known resistance to Northern Leaf Blight.

This is the most effective control strategy.

**Crop Rotation:** Rotate maize with non-host crops to reduce inoculum levels in the soil.

**Sanitation:** Remove and destroy infected crop residues after harvest to minimize the survival of the fungus.

**Seed Treatment:** Use certified, disease-free seeds, or treat seeds with fungicides before planting.

**Fungicide Application:** Apply foliar fungicides as needed, particularly during periods of favorable weather conditions.

Follow label instructions carefully.

Timing of application is crucial; prophylactic applications or applications at the early stages of disease development are most effective.

**Proper Planting Density:** Avoid overcrowding to ensure good air circulation and reduce humidity within the canopy.

### Precautions (Hindi):

**प्रतिरोधी किस्में:** मक्का के किस्मों का चयन करें जो उत्तरांचल पत्तिका के प्रतिरोधी हों।