



# Zinc deficiency in Maize

	Prevention	Monitoring	Direct Control	Direct Control	Restrictions
 <p>Zinc deficient maize plant. Source: Dr Prakash Kumar &amp; Dr Manoj Kumar Sharma</p>  <p>White Bands in maize due to zinc deficiency. Source: by- Dr Prakash Kumar &amp; Dr Manoj Kumar Sharma</p>	<ul style="list-style-type: none"> <li>Take soils for testing to evaluate Zinc deficiency at KALRO Kabete, Soilcare or KEPHIS</li> <li>Apply Zinc fertilizer- zinc sulphate @ 1.6kg Zn/ acre before planting</li> <li>Do not over apply phosphorus fertilizer- DAP (diammonium phosphate),N:P:K, MAP (mono-ammonium phosphate) because it suppresses the uptake of zinc</li> </ul>	<ul style="list-style-type: none"> <li>Additional relevant crops: baby corn, banana, carrots, soybeans, wheat, rice, cabbages</li> <li>Check out symptoms in younger leaves and growing points</li> <li>Look for broadband of white and yellow chlorosis appearing on both sides of mid rib starting at the base of the leaf which does not extend to leaf tip</li> <li>Look for green midribs and outer leaf edges</li> <li>Check for bronzing of chlorotic areas</li> <li>Check for stunting and shortening of internodes</li> </ul>	<ul style="list-style-type: none"> <li>Apply foliar feed at the onset of deficiency symptoms</li> <li>Apply foliar chelate of Zinc @1.3kg/120L/ acre or Zinc Max 38ml/100L/acre</li> </ul>	<ul style="list-style-type: none"> <li>Always wear protective gear when applying fertilizers</li> <li>Wash protective gear after fertilizer application</li> <li>Store gear and application apparatus separate from household appliances</li> <li>Do not use hooks when transporting fertilizers</li> <li>Apply Zinc Sulphate fertilizer at the rate of 1.6kg Zinc/ acre</li> </ul>	<ul style="list-style-type: none"> <li>Zinc fertilizer applied on soil is more effective than foliar-applied zinc in addressing zinc deficiency</li> </ul>

## Kenya

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