

Deficiencies and disorders- Mango

Nitrogen

Deficiency Symptoms :

Yellow undersized leaves, severe retardation of growth, twigs become yellow in color. Fruits smaller and mature early. Leaves small with general yellowing

Correction Measure :

Application of recommended nitrogenous fertilizers (80 kg N/ha) or foliar application of Urea 2-4% at fortnightly intervals.

Phosphorus

Deficiency Symptoms :

Retarded growth premature dropping of older leaves partial die-back from the tip small green younger leaves are borne at the tips of the branches. Some branches show die back. Leaf tip necrosis and premature abscission of leaves.

Correction Measure :

Soil application of single super phosphate or foliar application of ortho phosphoric acid 0.5 % thrice.

Potassium

Deficiency Symptoms :

Darkening of leaves, reduced growth and vigour. Appearance of white, yellow or orange chlorotic spots in older leaves and distributed irregularly over both under and upper leaf surfaces. Necrotic areas develop along the leaf margins. Poor growth of roots. Die back with tip burn with small leaves.

Correction Measure :

Foliar spray of KCl 2% at fortnightly intervals.

Calcium

Deficiency Symptoms :

Abnormal growth of young leaves and growing points resembling boron deficiency severe deficiency leads to death of the bud.

Correction Measure :

Application of gypsum at 50 kg/ha.

Magnesium

Deficiency Symptoms :

Reduction in growth premature defoliation yellowish brown chlorosis featured by a green wedge down the central part of the leaf bronzing starting from the edge of the leaf rounded margin between each pair of lateral veins.

Correction Measure :

Soil application of $MgSO_4$ 5-10 kg/ha a foliar spray of $MgSO_4$ 2% at fortnightly intervals.

Sulphur

Deficiency Symptoms :

Symptoms first appear on young leaves with fading of green colour. Growth is stunted. Leaf tip remains green and with severe deficiency the whole leaf turns yellow.

Correction Measure :

Soil application of sulphur fertilizer

Boron

Deficiency Symptoms :

Deficiency is common in high rain fall areas, high temperature, soil acidity and calcareous soils. Fruits become brown in colour. Flesh may become soft and watery which cracks down to the centre.

Correction Measure :

Application of 5-10 kg Borax / ha a foliar spray of 0.25% Borax at 10 days interval or solubor at 300 gm/ 100litres of water.

Copper

Deficiency Symptoms :

Shoots produced on long drooping S-shaped branches of previous growth are weak lose foliage and die back.

Correction Measure :

Foliar spray of Copper oxy chloride 0.2% at fortnightly intervals.

Manganese

Deficiency Symptoms :

Deficiency appears on the middle of the plant. Interveinal chlorosis of leaves. Reduced growth leaf symptoms appear very late leaves show a yellowish green background with a fine network of green veins on the upper surface and disappearing after a few weeks mature leaves thicker and blunted. Specks of light grey to grayish brown colour appear under mid deficiency.

Correction Measure :

Foliar application of $MnSO_4$ 0.2% at fortnightly intervals.

Zinc

Deficiency Symptoms :

Leaf blade thickens leaf shape is distorted leaf margin up or down the tip may curve back interveinal areas leaves are usually smaller thickened leaf blade brittle spaced leaves show a rosette appearance. Some twigs die back flower panicles of trees showing little leaf symptoms are usually small irregular in shape drooping spikes.

Correction Measure :

Soil application of $ZnSO_4$ 10 kg/ha or foliar spray of $ZnSO_4$ 0.5% or nitrozinc at 150 ml /100litres of water.