

HOW TO RECOGNIZE NUTRIENT DEFICIENCY SYMPTOMS

Inorganic Elements

Deficiency Symptoms

Nitrogen (N)

Plants stunted, yellowing from bottom up and leaf tip back to petiole. Reduced size. Slow, stunted growth.

Phosphorous (P)

Plants stunted, shorter internodes, purple or dark green foliage; old leaves die back; flowers and fruit poor. Slow growth, delayed maturity.

Potassium (K)

Older leaves scorches on margin; weak stem; fruit shriveled, uneven ripening.

Boron (B)

Tip of growing plant dies; bud becomes light green; roots are brown in center; flowers do not form.

Calcium (Ca)

Young leaves turn yellow then brown; growing tip bends; short, dark roots.

Iron (Fe)

Young leaves are yellow between veins first, top to bottom; veins, margins, and tips stay green.

Magnesium (Mg)

Leaves are thin, lose green color from between veins from bottom of plant up; tend to curve upward.

Manganese (Mn)

Tissue between veins turns white; leaves have dead spots; plant is dwarfed.

Zinc (Zn)

Terminal leaves are small; bud formation is poor; leaves have dead areas.