

# Copper Deficiency Symptoms

## Copper plays an important role in the following:

- Necessary in protein synthesis
- Promotes seed production
- Essential for chlorophyll production
- Important part of essential plant enzymes
- Catalyzes several other plant reactions



## Factors which may lead to Copper deficiencies in soil:

- High soil pH
- High organic matter soils
- Excessive phosphorus, zinc, manganese, or iron levels
- Sandier textured soils

## Copper deficiency symptoms:

- Seed production is reduced and quality downgraded
- Symptoms in broadleaf crops are general and often non-specific
- In cereals the youngest leaves are affected; leaf tips wither and curl (pigtail) - resembles frost damage
- Seed set and grain production are reduced, plant may appear stunted
- Increased levels of such diseases as root rot, rust, bunts, and ergot



Copper Deficiency on Wheat



Copper Deficiency on Corn



Copper Deficiency on Citrus

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