

Periodic Table of Plant Health

Primary macro-nutrients

7
N
Nitrogen

- 🟢 Synthesis of proteins and chlorophyll
- ⬇️ Chlorosis of older leaves / slow growth
- ⚠️ Too much run off / under feeding

15
P
Phosphorus

- 🟢 Synthesis of DNA and energy production
- ⬇️ Purpling of leaves
- ⚠️ Excess calcium / high pH

19
K
Potassium

- 🟢 Enzyme activity, cell turgor, stomata control
- ⬇️ Chlorosis at leaf tip and edges
- ⚠️ Unfertilised growing media. Excess run off

Secondary macro-nutrients

16
S
Sulphur

- 🟢 Protein synthesis, chloroplast function, Photosynthetic energy conversion
- ⬇️ Light green leaves
- ⚠️ Using granular fertilisers that do not contain sulphur

20
Ca
Calcium

- 🟢 Cell wall structure, and cell division in growing points
- ⬇️ Blackening of new buds / fruits
- ⚠️ Inconsistent water availability / acidic pH / using liquid fertilisers lacking calcium

12
Mg
Magnesium

- 🟢 The central atom in the chlorophyll molecule
- ⬇️ Interveinal chlorosis of OLDER leaves
- ⚠️ Excess calcium or potassium

Micro-nutrients

26
Fe
Iron

- 🟢 Component of the chlorophyll molecule
- ⬇️ Chlorosis of YOUNG leaves
- ⚠️ High pH

5
B
Boron

- 🟢 Numerous functions in flowering, fruiting, and metabolism
- ⬇️ Symptoms only visible when flowering/seeding
- ⚠️ Using cheap fertiliser on inert media

25
Mn
Manganese

- 🟢 Chloroplast formation
- ⚠️ High pH

30
Zn
Zinc

- 🟢 Auxin synthesis and functioning of numerous enzymes
- ⬇️ Interveinal chlorosis, grey brown spots
- ⚠️ High pH (not as extreme as iron)

42
Mo
Molybdenum

- 🟢 Functioning of enzymes involved in nitrogen metabolism
- ⚠️ Low pH

29
Cu
Copper

- 🟢 Photosynthesis, enzyme functioning, lignin synthesis
- ⚠️ High pH (not as extreme as iron)

17
Cl
Chlorine *

- 🟢 Osmotic functioning
- ⚠️ Near impossible to be deficient

11
Na
Sodium *

- 🟢 Only essential in plants possessing C4 (e.g. bermuda grass & Zoysia) and CAM (e.g. Cacti) photosynthesis. Toxic when applied to most plants
- ⚠️ Near impossible to be deficient

28
Ni
Nickel *

- 🟢 Urease activity
- ⚠️ Near impossible to be deficient

Non-mineral nutrients

6
C
Carbon

Obtained from the air (CO₂)

1
H
Hydrogen

Obtained from water (H₂O)

8
O
Oxygen

Obtained from air and water

Non-essential elements

14
Si
Silicon

Not essential for plant survival, but major benefits to stress tolerance and physical strength

34
Se
Selenium *

Required for grazing animal health, but not plants

27
Co
Cobalt *

23
V
Vanadium

22
Ti
Titanium

Some reports of minor beneficial effects

13
Al
Aluminium

24
Cr
Chromium

48
Cd
Cadmium

Examples of some elements particularly toxic to plants

79
Au
Gold

2
He
Helium

9
F
Flourine

Examples of some elements that are neither beneficial nor toxic

Key

- 🟢 Key function in plants
- ⬇️ Common symptom of deficiency
- ⚠️ Where deficiencies commonly occur
- * Never add in fertiliser as never deficient and high risk of toxicity to either humans or plants



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