

7

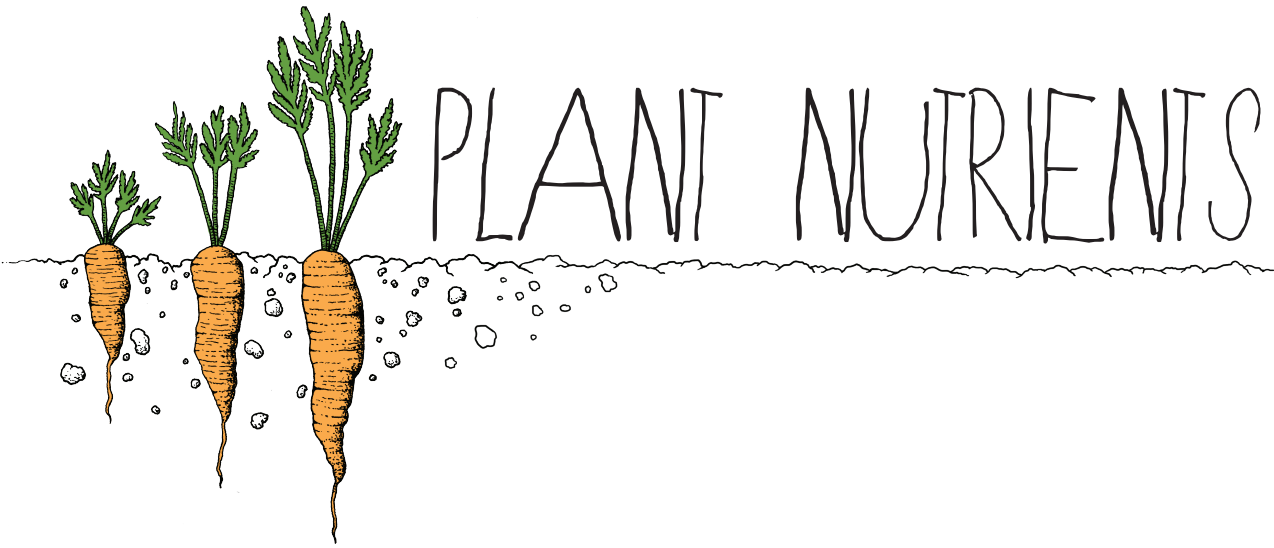
N

Nitrogen

14.00643 - 14.00728

Nitrogen & Plants

- Nitrogen is a part of all living cells, proteins, and enzymes
- Nitrogen is a part of chlorophyll
- Increases speed of fruit production
- Increases quality of leaf and forage crop



15

P

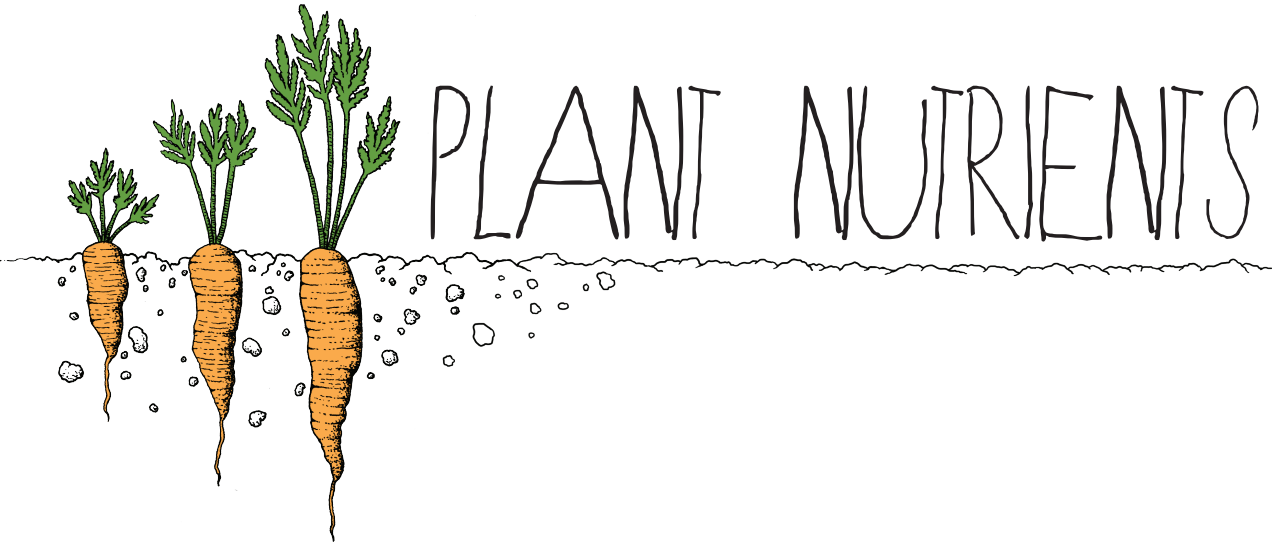
Phosphorus

30.974

Phosphorus & Plants

- Encourages blooming and root growth
- Phosphorus is essential to photosynthesis
- Effects rapid growth

PLANT NUTRIENTS



19

K

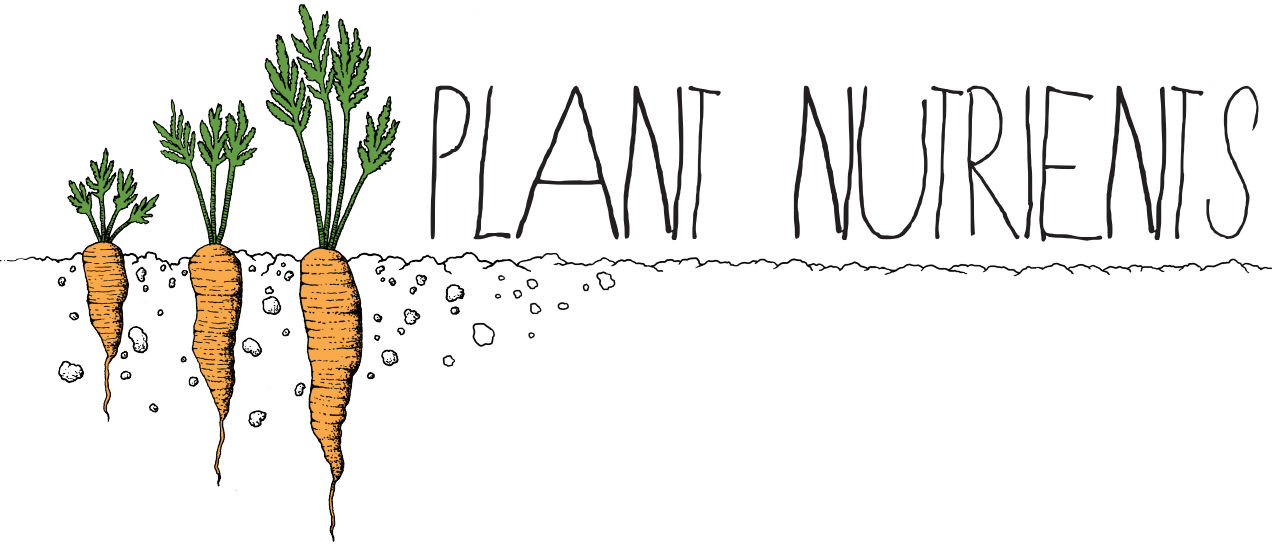
Potassium

39.0938

Potassium & Plants

- Reduces impact of diseases
- Essential for building proteins

PLANT NUTRIENTS



20

Ca

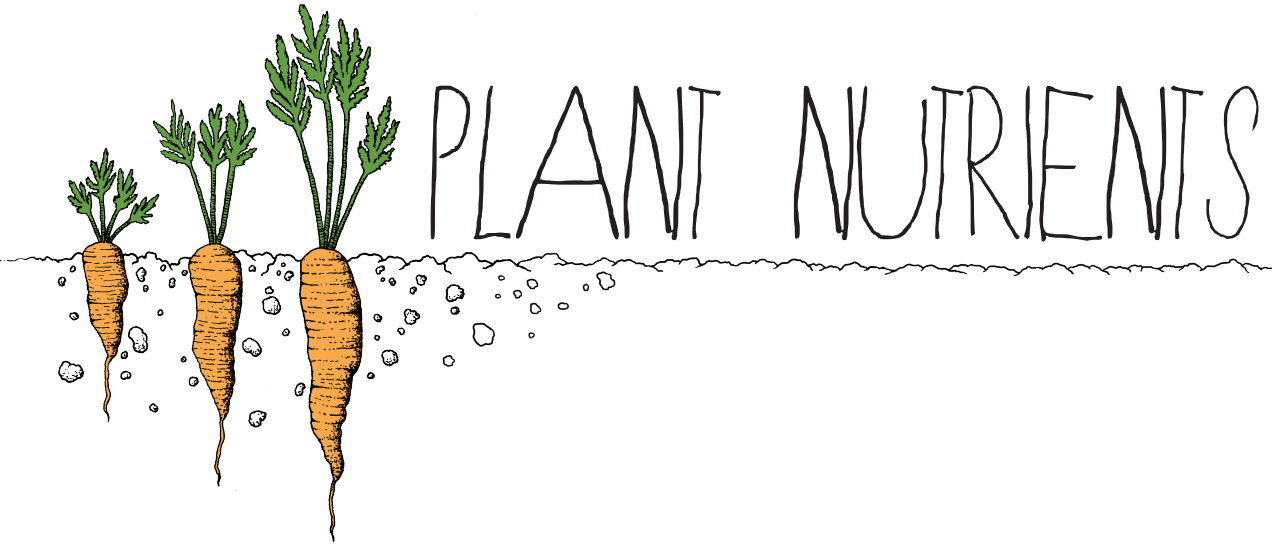
Calcium

40.078

Calcium & Plants

- Calcium is essential to the plant wall; it provides structure for the plant and controls movement of other elements
- Helps prevent diseases

PLANT NUTRIENTS



12

Mg

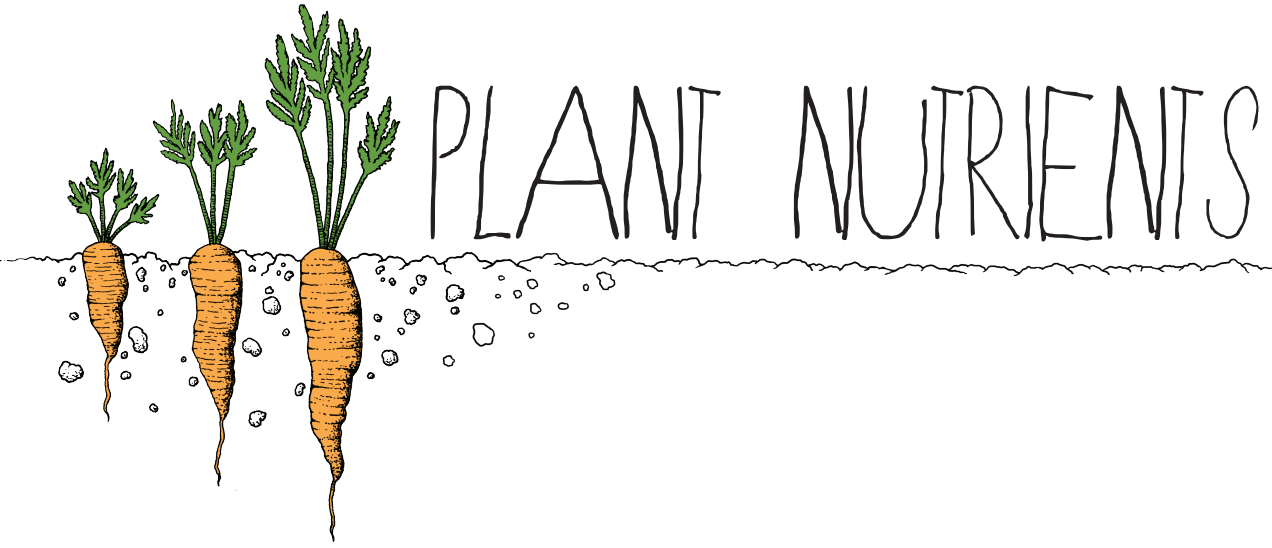
Magnesium

24.31

Magnesium & Plants

- Magnesium is a part of chlorophyll
- Activates many plant enzymes for growth

PLANT NUTRIENTS



16

S

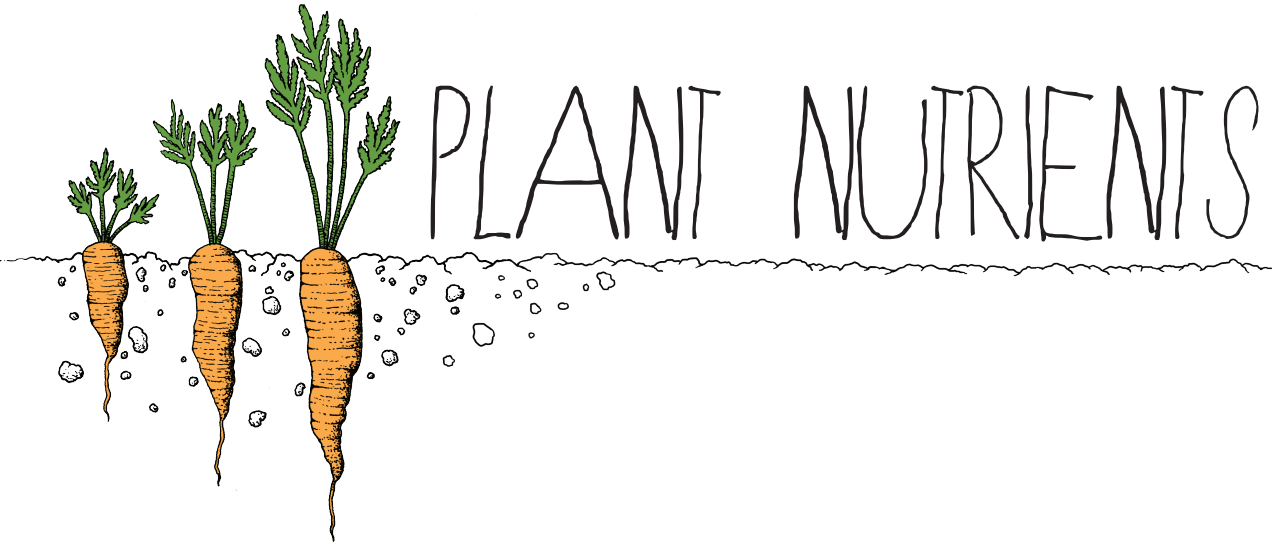
Sulfur

32.065

Sulfur & Plants

- Essential plant food for production of protein
- Improves root growth and seed production
- Helps with vigorous plant growth and resistance to cold

PLANT NUTRIENTS



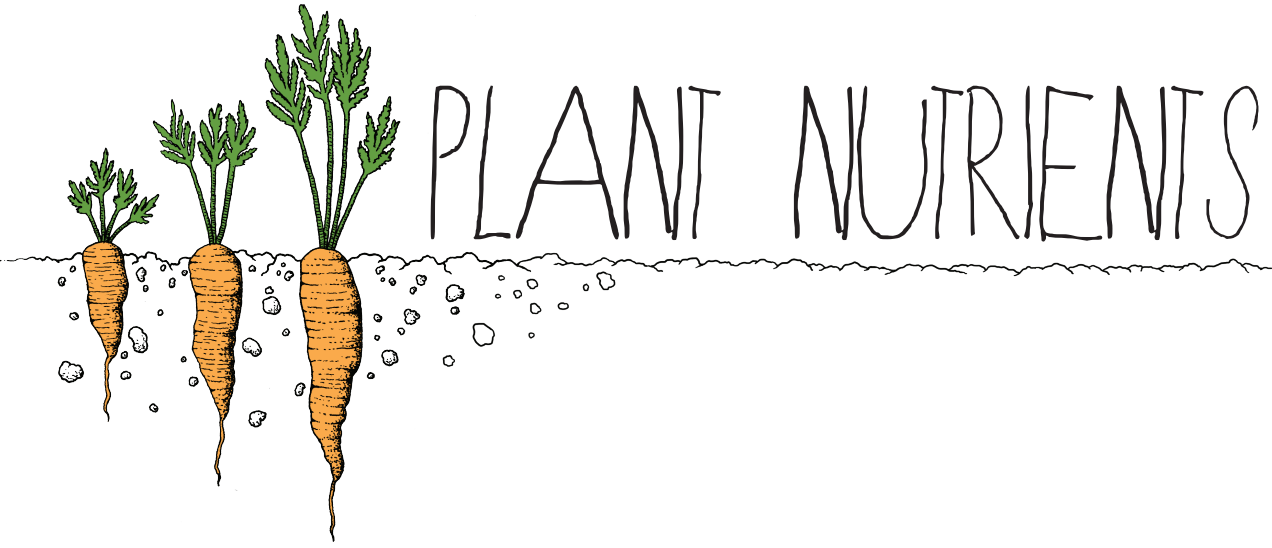
5

B

Boron

32.065

PLANT NUTRIENTS



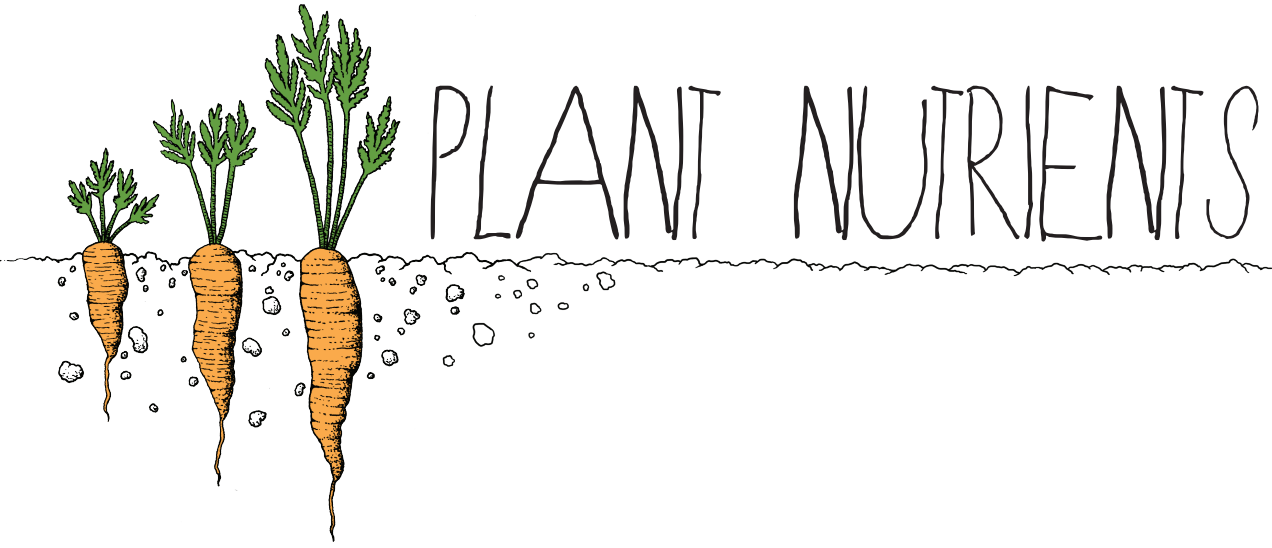
29

Cu

Copper

63.546

PLANT NUTRIENTS



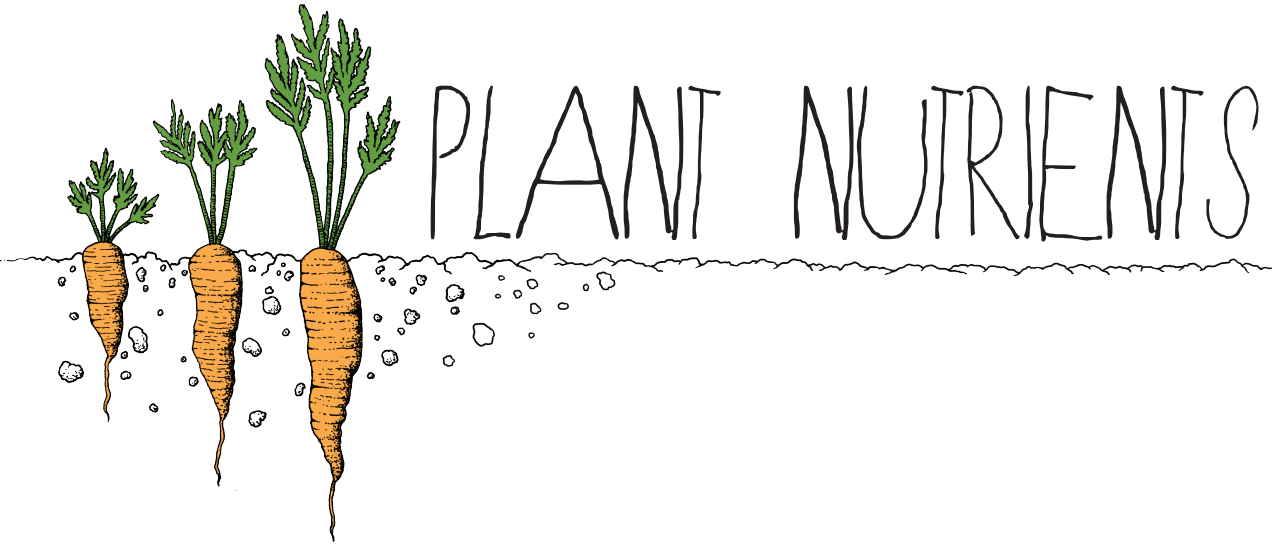
17

Cl

Chlorine

35.453

PLANT NUTRIENTS



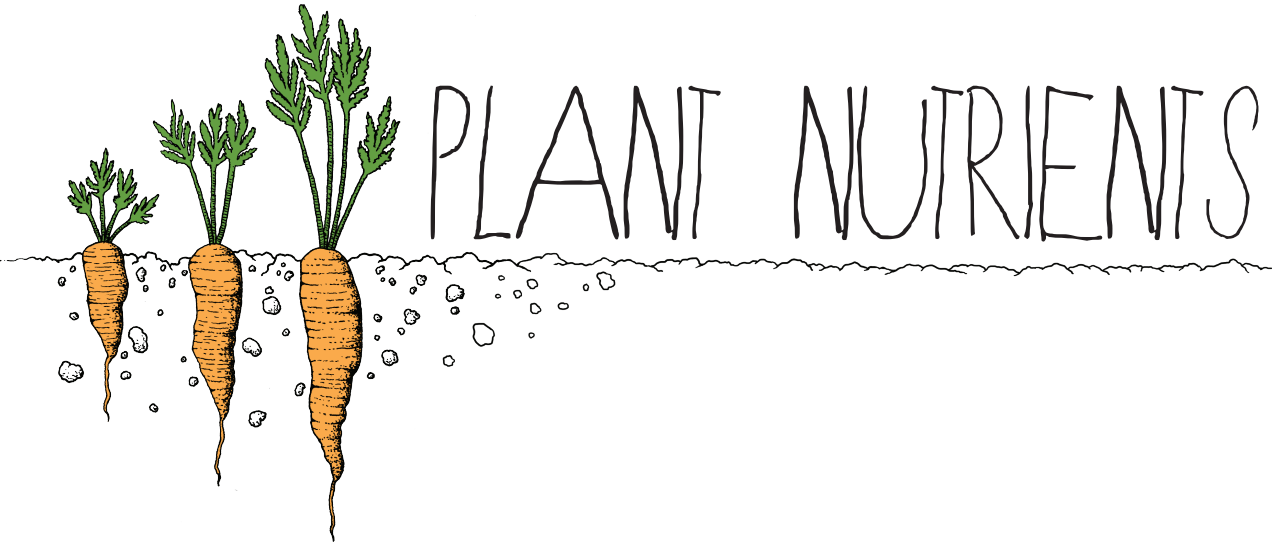
26

Fe

Iron

55.847

PLANT NUTRIENTS



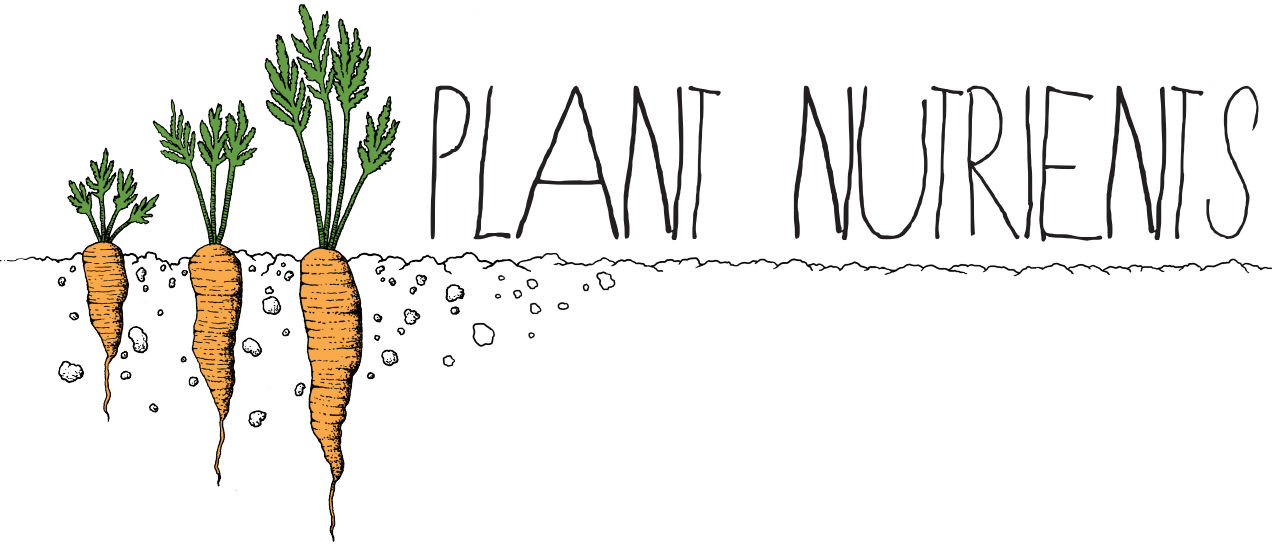
35

Mn

Manganese

54.938

PLANT NUTRIENTS



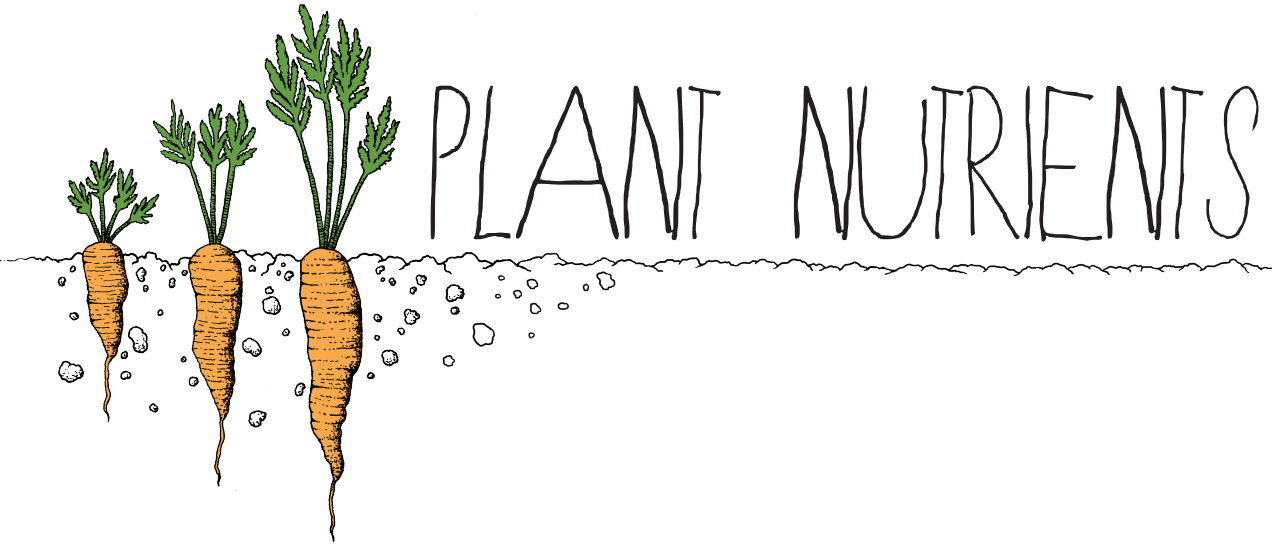
42

Mo

Molybdenum

95.94

PLANT NUTRIENTS

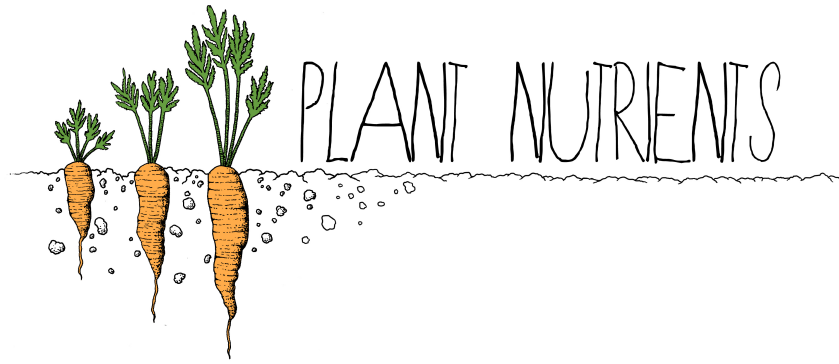


30

Zn

Zinc

65.38



Macronutrients

Primary nutrients: Nitrogen, Phosphorus, Potassium

1. List one function of each primary nutrient in plant growth.

-
-
-

2. What is the atomic number of Nitrogen?

3. What is the atomic mass of Phosphorus?

4. How many neutrons does Potassium have?

Secondary nutrients: Calcium, Magnesium, Sulfur

5. List one function of each secondary nutrient in plant growth.

-
-
-

6. How many electrons does Calcium have?

7. What is the atomic number of Magnesium?

8. What is the symbol for Sulfur?

Micronutrients: Boron, Copper, Chlorine, Iron, Manganese, Molybdenum, Zinc

9. Which micronutrient has the greatest atomic mass? The smallest?

10. Which micronutrient has 35 neutrons?

11. What is the sum of the atomic mass of Boron + the number of electrons in Chlorine + the atomic number of Zinc?

12. How many protons, neutrons, and electrons does Iron have?

13. What is the atomic number of Molybdenum?

14. What is the symbol for Copper?

15. What is the sum of the protons and neutrons in Manganese?