

# JPR'S GARDEN

## PLANT NUTRITION - WHAT IT'S ALL ABOUT!

### What Are The Mineral Elements?

There are 20 mineral elements necessary or beneficial for plant growth.

Three of these minerals are supplied by air and water:

1. Carbon (C)
2. Hydrogen (H)
3. Oxygen (O)

#### Macronutrients

Six of the minerals are known as **Macronutrients** as they are required by plants in large amounts:

4. Nitrogen (N)
5. Phosphorous (P)
6. Potassium (K)
7. Calcium (Ca)
8. Magnesium (Mg)
9. Sulphur (S)

#### Essential Trace Elements

The remaining minerals are only required in trace amounts and are known as **Micronutrients or Trace Elements**:

10. Boron (B)
11. Chlorine (CL)
12. Copper (Cu)
13. Iron (Fe)
14. Manganese (Mn)
15. Sodium (Na)
16. Zinc (Zn)
17. Molybdenum (Mo)
18. Nickel (ni)

#### Beneficial Mineral Elements:

19. Silicon (Si)
20. Cobalt (Co)

A wholistic approach to plant nutrition is to supply the nutrients essential for survival and also supply the trace elements at levels beneficial for optimum growth.

Therefore, plants should be given more frequent applications of the Macronutrients (elements required in large amounts) and occasional applications of Micronutrients (minerals required in trace amounts).

This approach to fertilising your plants will result in better quality plants and blooms, growing at their optimum.

### MAGAMP & BLACK BEAUTY - The Fertilising System!

**Magamp @ K** is a 100% pure chemical compound of low solubility, supplying plants with essential Macronutrients:

- ✓ Nitrogen (N) - 7%
- ✓ Phosphorus (P) - 17.5%
- ✓ Potassium (K) - 5%
- ✓ Magnesium (Mg) - 7%

Every time you water your plants, you'll be slow release fertilising with Magamp. Sprinkle it on the top of the soil or deliver the nutrients via your hose or tap using the Magamp Easy Feeder!

Complete your feeding regime by using **Black Beauty Powdered Irish Seaweed** every 3 weeks to ensure your plants receive the essential trace elements they require. Together, these two products supply a broad cross section of the nutrients plants need for optimum health.

### Getting to know and understand... PHOSPHOROUS!

**Black Beauty Powdered Irish Seaweed** is 100% good for all plants and can be used on every plant in the garden.

**Magamp** is different. It is high in phosphorous which is one of the reasons why it's so good particularly for plants that flower or fruit. But phosphorous isn't liked by every plant in the garden and some can react negatively to high amounts of phosphorous such as Australian Natives like Bottle Brush, Gum Trees and even the much loved Maiden Hair Fern.

Also, Azaleas prefer lower amounts of phosphorous so if you do sprinkle Magamp around your azaleas, use sparingly (half the normal amount or less). The small amount of nutrients delivered via the Easy Feeder is the best way to use Magamp on Azaleas.

As a rule, exercise your own judgement and caution when using Magamp on a particular variety of plant until you are familiar with the results under your own growing conditions.

If you're unsure about a plant's tolerance of phosphorous, ask your local nursery or do small trials at low rates on plants you are initially unsure of. Watch them in the early stages of use and if they react negatively, discontinue use on those plants.

Magamp may not be for every plant in the Australian garden but it is well worth getting to know and understand this incredible product! Once you've experienced the amazing results, you'll have complete confidence in this world-best fertiliser.