

Vegetables

Vegetable crops vary enormously in their nutritional requirements but a good general rule is that leafy vegetables require more nitrogen than other elements, root crops more phosphorus and flowering or fruiting crops require more potassium, particularly before and during flowering/fruiting. **Note - This is a general rule and all crops use all the major and minor nutrients, however, their requirements change depending on the stage of their growth.**

Most vegetables are planted with some fertilizer and there are many available for pre-planting. Some of these would include NutriSmart® either alone or in NPK blends, Blood & Bone + K, Multipurpose, Banana Special. One or several side dressings are generally applied depending on the crop. This is generally a fertilizer with a lower amount of phosphorus (as the root system is already established)

The following are general fertilizer programs for the crops specified. These are examples only and a multitude of variations within application rates and products exist. Paton Fertilizers strongly recommends soil and leaf testing to ascertain a precise nutrition program for each crop.

- Broccoli
- Cabbage
- Cauliflower
- Peas/Beans
- Potatoes
- Tomatoes

Broccoli

Optimum pH 6.0 - 7.2

Base Dressing

In the absence of a soil analysis, a general guide to pre-plant NPK fertilizer is as follows:

- 100 kg/ha of Nitrogen
- 50 kg/ha of Phosphorus
- 35 kg/ha of Potassium

This would equate to an application of **Banana Special** at 1400 kg/ha (140 grams/square metre) or **No.19 + Mg** at 735 kg/ha (73.5 grams/square metre).

Side Dressing

An application of Calgran 25 - 0 - 0) at 370 kg/ha. Side dressings are best made in two or three split applications.

Cabbage

Optimum pH 5.6 - 7.0

Base Dressing

In the absence of a soil analysis, a general guide to pre-plant NPK fertilizer is as follows:

- 40 kg/ha of Nitrogen
- 40 kg/ha of Phosphorus
- 40 kg/ha of Potassium

Side Dressing

An application of Calgran (25- 0 - 0) at 370 kg/ha or. Side dressings are best made in two or three split applications.

Cauliflower

Optimum pH 6.0 - 7.2

Base Dressing

In the absence of a soil analysis, a general guide to pre-plant NPK fertilizer is as follows:

- 100 kg/ha of Nitrogen
- 50 kg/ha of Phosphorus
- 35 kg/ha of Potassium

This would equate to an application of **Paton's Banana Special** at 1400 kg/ha (140 grams/square metre) or **Paton's No.19 + Mg** at 735 kg/ha (73.5

grams/square metre).

Side Dressing

An application of Calgran (25 - 0 - 0) at 370 kg/ha or Side dressings are best made in two or three split applications.

Peas/Beans

Optimum pH 5.8 - 6.8

Base Dressing

Peas and beans require careful nutritional management to give maximum yields. In the absence of a soil analysis, a general guide to pre-plant NPK fertilizer is as follows

- 30 - 50 kg/ha of Nitrogen
- 55 - 60 kg/ha of Phosphorus
- 40 - 50 kg/ha of Potassium

This would equate to an application of **Blood & Bone Plus K** (organic) at 640 - 1060 kg/ha (64 - 106 grams/square metre).

Side Dressing

Apply a side dress of **Potassium Nitrate** (13.5 - 0 - 36.5) at approximately 200 - 250 kg/ha (20 - 25 grams/square metre). Side dressings are best made in two or three split applications

Potatoes

Optimum pH 5.1 - 6.0

Base Dressing

In the absence of a soil analysis, a general guide to pre-plant NPK fertilizer is as follows:

- 100 - 150 kg/ha of Nitrogen

- 40 kg/ha of Phosphorus
- 100 kg/ha of Potassium

This would equate to an application of **Prolific Blue** at 800 kg/ha (80 grams/square metre)

Side Dressing

An application of Calgran (25 - 0 - 0) at 370 kg/ha. Side dressings are best made in two or three split applications.

Tomatoes - Fieldgrown

Optimum pH 5.8 - 6.5

Base Dressing

In the absence of a soil analysis, a general guide to pre-plant NPK fertilizer is as follows:

- 40 - 50 kg/ha of Nitrogen
- 55 kg/ha of Phosphorus
- 65 kg/ha of Potassium

This would equate to an application of **Blood & Bone Plus K** (organic) at 640 to 1060 kg/ha (64 - 106 grams/square metre).

Side Dressing

Apply a side dress of **Prolific Blue** (12-5-14) at approximately 600 kg/ha (60 grams/square metre). Side dressings are best made in two or three split applications

Amgrow Specialty has an excellent range of soluble products (**Nutrafeed Range**) for greenhouse or fertigated tomato production.