

Plant Feeding



FERTILISER INFORMATION
GUIDE

*Handy wall
chart inside!*



Tui Products has been growing New Zealand gardens for over 100 years

Tui Products Ltd is the nationwide leader in supply and distribution of high quality garden products to home gardeners.

Tui is a trusted and reputable brand and “friend in your garden” through quality products and innovative gardening solutions.

Tui has developed a range that includes fertiliser, potting mixes, lawn seed, bird seed, pest control and gardening books/accessories.

As a New Zealand owned and operated company, Tui takes pride in providing a range of gardening products that achieve top gardening results.

Celebrating
100 YEARS
OF THE
TUI TRADEMARK



With such a wide range of fertilisers and plant foods available it can be difficult to know which varieties suit certain plant types. This guide explains the different forms of fertiliser and how each work. After choosing the right fertiliser always check the recommended application times and rates before use to ensure they are effective. Use this guide to decide which fertiliser is best for your plant needs or garden situation to make sure plants grow to their full potential.

Fertiliser Types

Powdered and granular fertilisers

These are ‘man made’ fertilisers and have their content represented as an NPK ratio (see overleaf for more information on NPK). They have the advantage of providing nutrients which are readily available to plants as they are a concentrated form of fertiliser. Specific formulations are recommended for particular groups of plants (e.g. lawns, citrus and roses).

Slow and controlled release fertilisers

Slow release fertilisers feed gently over a long period. These are usually granules that are protected with an exterior coating. When water is applied the granules break down and release nutrients. The rate and speed of nutrient release depends on watering and soil temperature (release is faster in warm weather than plants grow most).

Compound fertilisers

Compound fertilisers contain all essential nutrients in each and every granule making nutrients evenly available and economical to use. The granules are broken down then absorbed producing fast acting results. It is also long lasting as it can continue feeding for 3-6 months.

Water-soluble and liquid fertilisers

This fertiliser dissolves completely in water so it is easy to apply through a watering can or through a hose-spray attachment. These tend to be represented as plant food and the nutrients are rapidly and easily absorbed by flowering and fruiting plants and trees for an ‘instant boost’. They tend to be delicate enough not to burn roots so are ideal for container plants.

Organic Fertilisers

These are typically animal manures or animal/vegetable by-products. The nutrient content in organic material can vary considerably according to the age and origins of the materials and the conditions under which they are stored.

Animal manures

These contain small traces of nitrogen, phosphorus and potassium. These must be applied in large quantities to benefit soils as nutrient value is generally low. Micro-organisms are required to break the compounds down and make the nutrients available to plants. In cold weather this may be a very slow process.

Sheep Pellets

These are made from sheep dags and manure that cannot be made into wool. The material is heated and put through a pelletising machine, then cooled. Sheep pellets contain valuable components such as lanolin and oil which aid in soil conditioning. The pellets are broken down when water is added. This draws organic matter back to the soil - which is used during the growing process. Earthworms are drawn to this material and also help to break it down.

Cover Crops or Green manures

Cover crops are leguminous plants like Tui Mustard Seed and Tui Lupin that are planted in autumn to grow through the winter season. These are then mulched into the soil before the crops start to flower to revitalise soil for spring planting. Benefits to soil include improving overall structure, adding nitrogen and enhancing microbial activity.

NovaTec Premium



NOT ALL
FERTILISERS
ARE CREATED
EQUAL

For example 100g of Tui General Fertiliser is equivalent of 3kg of organic manure per square metre in nutrient content.



Tui Super Sheep Pellets



Garden shed essentials



It does not matter what your garden shed looks like, or the size, what's important is what it contains. Ensure you always have on hand the four most important fertilisers:

Tui General Fertiliser N-P-K 6 - 5 - 5
Tui General Fertiliser is an all purpose fertiliser containing essential nutrients and trace elements required for healthy plant growth. Suitable for use on vegetables, annuals, perennials, ornamentals and shrubs.

Tui Lawn Fertiliser N-P-K 9 - 3 - 3 + Iron
Tui Lawn Fertiliser is a blend of nutrients formulated to promote the establishment and growth of lawns. It is high in nitrogen to promote lush, green growth, as well as sulphate of iron to help control moss. Apply to established lawns to help control moss and keep it looking great.

Tui Blood & Bone N-P-K 6 - 6 - 0
A trusted product by many gardeners, Tui Blood & Bone is an organic based garden fertiliser. Apply around all kinds of garden plants to improve soil structure and replenish elements taken from the soil by plants during the growing process.

Tui Dolomite N-P-K-Ca-Mg 0 - 0 - 0 - 24 - 11.5
Tui Dolomite contains magnesium and calcium for plant health. The finely ground texture ensures the best availability of nutrients to plants. Apply to neutralise acidic soil and improve physical condition. Apply around leafy crops (such as cauliflower and lettuce), perennials, vegetable gardens and mixed borders.

Tui Lime N-P-K-Ca 0 - 0 - 0 - 32
Tui Lime is made from natural limestone and provides calcium to soils. Calcium is essential for strong plant growth and aids in the uptake of other nutrients. Most plants prefer a fairly neutral soil pH for optimum growth. Lime can be used to raise the soil pH level and sweeten the soil if necessary.



Tui Novatec Premium can be used to feed the entire garden including ornamental plants, roses, in pots and containers, and is perfectly safe for use around edible crops.

NEXT GENERATION FERTILISER

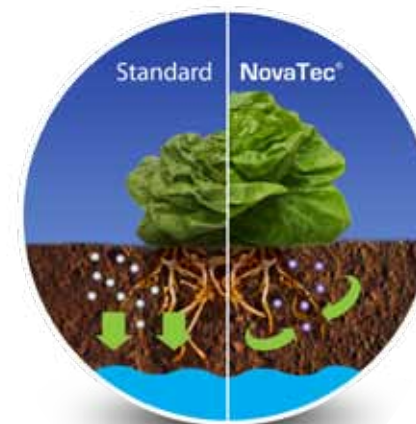
Tui Novatec Premium is developed with new technology that feeds plants more efficiently and sustainably. Tui Novatec has the benefits of nitrogen stabilising technology to grow stronger, healthier plants.

Nitrogen stabilising technology benefits both your plants and the environment through the greater availability of nutrients to the plant and less nitrogen leachates into our waterways.

What is Nitrogen stabilising technology?

Nitrogen is responsible for green leafy growth in plants and is very important to the growing process, however, in many fertilisers the nitrogen is released very quickly and the plant is unable to absorb all of it before it leaches out of the soil into waterways.

Nitrogen stabilising technology enables a sustained release of nitrogen to the plant and the remaining nitrogen stays in the soil at the root zone for when the plant needs it over a period of up to four months in soil with high clay content. This revolutionary technology along with important trace elements will result in optimum fruit and flowering performance, and has a near neutral effect on soil pH levels.



Visit www.tuigarden.co.nz to download a free fact sheet on Tui Novatec Premium



NITROPHOSKA® BLUE FERTILISER

N-P-K-Mg 12 - 3.5 - 13.3 - 1.8 +TE

Tui Nitrophoska Blue Fertiliser is proven to be one of the world's best known and widely used fertilisers. This multi-purpose fertiliser can be used on vegetables, fruits and ornamentals.

All essential nutrients are contained in each and every granule making nutrients evenly available and economical to use. It has excellent growth promoting qualities and reliable performance.

Use on avocados, grapes, lettuces, melons, cucumbers, peppers and all crops under glass and home garden.

Contains fast and long-lasting nitrogen sources for rapid, sustained growth.

Granular form means it's easy to apply and has no dust or smell.

Keeps feeding for up to three months.

Near neutral effect on soil pH level.



Tui Technical Range

Some more experienced gardeners like to mix their own fertilisers. This does require technical gardening knowledge and experience and can be beneficial to growers with plants that have specific nutrient requirements.

Each product in the Tui Technical Range is a concentrated source of a main nutrient (N, P or K) contained in blended fertilisers.

See overleaf for more information on what N P K means.



Tui Sulphate of Ammonia

(Nitrogen/N source) N-P-K-S 21 - 0 - 0 - 24

Tui Sulphate of Ammonia is an excellent source of nitrogen, which stimulates above ground growth of plant life and replaces ammonia form of nitrogen that has leached from soil. Nitrogen also intensifies the colour of leaves and growth rate in plants. Ideal to use on leafy crops like cabbage and lettuce.

Tui Super-Phosphate

(Phosphorus/P source) N-P-K-S 0 - 9 - 0 - 11.5

Phosphorus is responsible for stimulating and maintaining healthy root growth. Most New Zealand soils are naturally deficient in phosphorus so regular application is recommended. Suitable for most vegetables but particularly beneficial for root crops, like carrots.

Tui Sulphate of Potash

(Potassium/K source) N-P-K-S 0 - 0 - 42 - 18

Tui Sulphate of Potash is an excellent source of potassium for plants. Adding potassium to growing plants improves the quality of fruit and flowers while increasing the plant's resistance to pests and disease.

Suitable in larger amounts for vegetables, flowers and crop bearing trees and in smaller amounts in lawns.

Give your garden a boost

A garden in good physical shape is the best way to combat weeds, diseases and pests in your yard. All healthy gardens start with healthy soil to provide plants with the nutrients they need to thrive.

Tui Super Sheep Pellets contain a high quality blend of natural sheep pellets and Nitrophoska Blue compound fertiliser to give your garden an instant boost while naturally conditioning the soil. This 100% weed free formula also aids in increasing water retention and soil aeration.

The pelletised form means this product is easy and fast to use and can be applied around delicate plants. Pellets are sterilised to make them smell and dust free. The pellets break down over time when water is added. This draws organic matter back to the soil - which is used during the growing process.

Your garden will obtain sustained growth throughout the season because of the initial fast acting Nitrophoska in addition to the long lasting fertilisers. Use to care for your trees, shrubs, perennials, annuals, flowers and vegetables.

When planting your garden bed use Tui Super Sheep Pellets alongside Tui Organic Compost and Tui Pea Straw Pelletised Mulch to ensure your garden grows to its full potential.



Tui Fruit Food

Fruit trees are fun to grow and can give many years reward of fresh and juicy fruit.



Before investing in a fruit tree consider what fruit you like to eat and the space available in your garden. Dwarf fruit varieties of apple, citrus, olive, guava, and plum are a good choice for small sections.

For strong, healthy root growth and increased fruit and flower production apply a high quality balanced fertiliser like Tui Fruit Food. The added magnesium ensures healthy foliage growth and helps prevent diseases caused by soil deficiencies.

Tui Fruit Food (N-P-K 7-3.5-6) is ideal for feeding apple and pear trees, along with stonefruit, grapes, berries and other fruit trees that prefer a more neutral or alkaline soil.

Tui Tip

When applying sprinkle evenly around the tree dripline (this is where the plants' foliage extends to) and always water in well.



NEW



SEAWEED FEEDS



Using organic garden products is of high importance to some gardeners but it can be hard to define what that is. You don't have to stick to certified organic, just products generated from organic matter or natural resources.

Fertilisers that have a seaweed base like Seasol or Tui Eco-Fert will compliment the eco system of any garden. Seaweed contains a range of naturally occurring plant hormones which stimulate certain responses in plants such as strengthening of cell walls, better disease resistance and increased shoot and root growth. This results in longer shelf life of crops and helps plants cope with environmental conditions such as drought and transplant shock.

Seasol

Seasol is a highly refined liquid seaweed plant conditioner. It has been used extensively in commercial horticulture since the late 1970s and is still being used in both commercial and home gardens.

The seaweed used in Seasol is sustainably sourced and contains naturally occurring growth stimulants as well as the trace elements and minerals essential for plant health and vigour.

Seasol is technically not a fertiliser as it contains virtually no nitrogen or phosphorus. It is a plant conditioner and can therefore be used on all plants, all year round including roses, natives, citrus and acid lovers.

Tui Eco-Fert

Tui Eco-Fert is a powdered seaweed concentrate that is 100% soluble and organic so 100% of the benefits are used by plants.

The seaweed in Eco-Fert is guaranteed to be of consistently high quality (unlike many other seaweed based products) as it is harvested at the same time each year when minerals and hormones are at their peak.

Tui Eco-Fert (N-P-K 1-2 - 0.3 - 12) is suitable for use on vegetable and ornamental plants and can be applied as a foliar spray or soil fertiliser.

✓ Seaweed based feeds are great value as they are concentrated – a 100 gram tub of Tui Eco-Fert makes 200 litres!



Miracle Growth



All Miracle-Gro® Plant Foods contain a unique wetting agent that reduces run-off and ensures the plant food gets down to the plant roots quickly. The gentle formula is guaranteed not to burn plants when applied at recommended rates and times.

MaxFeed All Purpose promotes larger, healthier plants and generous flowering and fruiting in all plants, vegetables, trees and shrubs.

Miracle-Gro® MaxFeed Azalea, Camellia and Rhododendron creates ideal growing and flowering conditions for all acid-loving plants. It contains chelated iron to treat and prevent chlorosis (yellowing of leaves). It also contains the full range of trace elements, including magnesium, needed to keep acid-loving plants healthy. Acid-loving plants include Azalea, Camellia, Rhododendron, Daphne, Gardenia, Erica, Blueberry, Gordonia, Pieris, Protea, Murraya, Hydrangea and Conifers.

Miracle-Gro® MaxFeed Tomato & Vegetables is formulated to promote hearty, healthy vegetables. The high level of calcium aids in the prevention of blossom end rot in tomatoes and improves disease resistance in all vegetables.

Miracle-Gro® Roses & All Flowers has been formulated to promote blooming of all flowering plants and is especially suited to promoting abundant flowering in roses with enhanced flower colour. A soluble feed like Miracle-Gro® Roses & All Flowers reaches the most important parts of the root system of any tree or shrub - the fine root hairs on the extremities of the roots.

Feed and water at the same time!

The Miracle Gro Garden Feeder is an easy-to-use applicator with hose attachment that dispenses plant food automatically at the correct rate.



Why Fertilise?

As plants grow they take up vital nutrients from the soil. These need to be in constant supply for plants to reach their optimum growing potential.

Fertilising helps to replenish the soil with nutrients previously leached or lost, providing that helping hand in order for plants to be healthy and thrive.

Healthy plants experience stronger growth, brighter flowers, more abundant fruiting, tastier vegetables and are less susceptible to pests and diseases.

All plants have a particular balance of nutrients they need to grow. A range of essential elements make up the complete needs of plants and can be split into two main groups...

Macro Nutrients are the six nutrients required in relatively large quantities. Nitrogen, phosphorous and potassium are often called primary macronutrients as

they make up NPK found in most fertilisers. Calcium, magnesium and sulphur are often called secondary macronutrients.

Micro-nutrients or trace elements are also essential for plant growth but are required in minute amounts. Plant macronutrients include iron, chlorine, copper, manganese, zinc, molybdenum and boron.

What does N-P-K stand for?

N-P-K refers to the percentage of the three major nutrients in fertilisers.

(N) Nitrogen promotes thick, healthy, green foliage and growth of plants.

(P) Phosphorus encourages a strong and early root formation. It hastens maturity and promotes seed growth.

(K) Potassium stimulates fruiting and flowering and maintains overall plant health and helps to protect plants against disease and drought.

The NPK levels will vary depending on the purpose of the plant food.

The NPK is stated on all Tui fertiliser packaging to assist understanding of the benefits of each particular blend.



Tui Garden Remedies

Your Garden Medicine Cabinet

Tui Garden Remedies range helps you find a solution to common garden problems. Available in handy re-sealable packs to complete your garden medicine cabinet.



BLUESTONE – Copper Sulphate

Controls moss and algae on paths, paving and driveways. Also corrects copper deficiencies.



COMPOST ENHANCER – Hydrated Lime

Accelerates composting and helps neutralise acidic soils.



EPSOM SALTS – Magnesium Sulphate

Correct magnesium deficiencies by turning yellow leaves to green. Ideal for citrus trees and vegetables.



FLOWER BOOSTER – Dried Blood

High in nitrogen and iron. Ideal for leafy crops and flowering polyanthus, primulas and cyclamen.



FRUIT AND FLOWER – Sulphate of Potash

A fruit and flower booster rich in potassium. Encourages disease resistance and healthy foliage.



HYDRANGEA BLUE – Aluminium Sulphate

Enhances bright blue colours on hydrangea plants and is also ideal for acid loving plants.



MICRO NUTRIENTS – Trace Elements

A micro-nutrient booster. Corrects soils deficient in micro-nutrients.



MITE AND MILDEW CONTROL – Flowers of Sulphur

Helps to control red spider mites and powdery mildew. Mite and Mildew Control also acidifies soil and can be used as a bulb duster by lightly dusting before planting bulbs.



MOSS CONTROL – Sulphate of Iron

Corrects iron deficiencies. Encourages dark green foliage and kills moss in lawns.



NITROGEN BOOSTER – Urea

Encourages rapid green plant growth. Ideal for lawns, vegetables and shrubs.

ACID LOVING PLANTS



Related Products:
1, 8

Azaleas, camellias, ericas, daphnes, rhododendrons, gardenias and hydrangeas are all acid loving plants. Tui Acid Food is a complete and balanced blend of nutrients and trace elements perfect for the healthy growth of acid loving plants and specially formulated to provide the acidic soil conditions they require to thrive. To enhance and deepen the blue colouring in beautiful hydrangeas add Tui Hydrangea Blue to the soil.



1

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ACIDIC SOIL



Related Products:
5, 6, 9

Most plants prefer a neutral soil pH for healthy growth. Some areas of NZ have naturally acidic soil and require "sweetening" in order to provide optimum growing conditions. Tui Lime and Tui Dolomite are both organic products that will neutralise the soil pH creating a suitable base for growing.



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6

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CITRUS



Related Products:
4, 7

Citrus and Subtropicals are highly demanding trees to grow, and require regular specialised feeding. Tui Citrus Food contains high levels of nitrogen, potassium and magnesium to provide an ideal supply of nutrients for these gross feeders resulting in juicy fruits and healthy green foliage. To prevent stunted growth and yellow veiny leaves caused by Magnesium deficiencies, use Tui Epsom Salts.



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CONTAINER PLANTS



Related Products:
11, 24

When planting into containers adding Saturaid granular soil wetter will ensure water is absorbed right down to the roots. Container plants require regular feeding so use Tui Eco-Fert during the growing season. Tui Eco-Fert can be used on vegetable and ornamental plants. The powdered seaweed concentrate is 100% soluble and organic so 100% of the benefits are used by plants.



11

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FLOWERS AND BULBS



Related Products:
3, 17, 20

Flowers can be the pride and joy of any garden. To achieve beautiful blooms and vibrant displays, a boost from vital nutrients can go a long way. Tui Sulphate of Potash is an excellent source of potassium, essential for the strength of plants and development of fruit and flowers. Roses benefit from the high potassium and iron blend of Tui Rose Food. To stimulate maximum flowering and healthy growth in bulbs, simply add a handful of Tui Bulb Food when planting.



3

17

20

FRUIT



Related Products:
14, 18, 23

Fruit trees are fun to grow and can give many years reward of fresh and juicy fruit. Tui Nitrophoska Blue fertiliser is ideal for providing rapid, sustained fruit growth and continues to feed for up to three months.

Tomatoes and strawberries perform best when a specialty fertiliser is used. Tui Strawberry Food and Tui Tomato Food are formulated with the specific blend of nutrients these plants require. Apply Tui Fruit Food apple and pear trees, stonefruit, grapes, berries and other fruit trees that prefer a more neutral or alkaline soil.



14

18

23

27

GENERAL FERTILISING



Related Products:
2, 10, 11

All plants need feeding to reach their optimum growing potential. Tui Blood & Bone provides a natural, organic fertiliser that is slow acting and long lasting. Tui General Fertiliser has been formulated with an NPK of 6-5-5 to supply all the vital nutrients essential for healthy growth. Tui Eco-Fert is a natural seaweed based fertiliser that can be applied as a foliar spray or soil drench to vegetables, ornamental plants and lawns.



LAWNS



Related Products:
12, 13

Keep your lawns thick, lush and healthy to prevent weeds from establishing. Tui Lawn Fertiliser contains the essential nutrients to aid in establishing and maintaining root growth, which is the foundation of a lawn. Tui Lawn Fertiliser also has the added benefit of sulphate of iron to help control moss. To enhance the deep colour of lawns apply Tui Nitrogen Booster Urea. This fast acting form of nitrogen also encourages rapid growth.



SOIL CONDITIONING



Related Products:
15, 22, 25

Soil is the foundation of all healthy gardens. Create a soil base with plenty of organic matter to encourage healthy growth, earthworm activity and provide plants throughout the garden with the nutrients they need to thrive. Use Tui Super Sheep Pellets to improve soil condition and add nutrients to the whole garden. Mulch around the garden with Tui Pea Straw Pelletised Mulch to conserve moisture, enrich and protect the soil. Clay or compacted soils will benefit from added Gypsum to loosen up the soil, improving root growth and drainage.



VEGETABLES



Related Products:
14, 16, 19, 21, 26

Whether you go natural or use chemicals in your veg patch, be sure to provide an ample supply of nutrients to stimulate healthy growth. Your fruit, vegetables and ornamentals will be enhanced by Tui Nitrophoska Blue fertiliser. Its compound form is easy to use and is a concentrated source of nutrients. Tui Superphosphate is an excellent source of phosphorus, which is responsible for stimulating root growth and especially important as NZ soils are naturally phosphorus deficient. Tui Sulphate of Ammonia will intensify leaf colour and growth rate in plants, especially beneficial for cabbages and lettuces. To grow a high yield of tasty fresh potatoes use Tui Potato Food.



TUI PRODUCT LIST

1	Tui Acid Food	10	Tui General Fertiliser	19	Tui Sulphate of Ammonia
2	Tui Blood & Bone	11	Tui Eco-Fert	20	Tui Sulphate of Potash
3	Tui Bulb Food	12	Tui Lawn Fertiliser	21	Tui Superphosphate
4	Tui Citrus Food	13	Tui Nitrogen Booster Urea	22	Tui Super Sheep Pellets
5	Tui Compost Enhancer Hydrated Lime	14	Tui Nitrophoska Blue	23	Tui Tomato Food
6	Tui Dolomite	15	Tui Pea Straw Pelletised Mulch	24	NovaTec Premium
7	Tui Epsom Salts Magnesium Sulphate	16	Tui Potato Food	25	Gypsum
8	Tui Hydrangea Blue Aluminium Sulphate	17	Tui Rose Food	26	Tui Vegetable Food
9	Tui Garden Lime	18	Tui Strawberry Food	27	Tui Fruit Food

As
seen on
TV!



For practical gardening
advice, view our handy
Tui Time videos!



Flowers



Citrus



Fertiliser



Roses

- ✓ Web videos
- ✓ How to guides
- ✓ Gardening info



www.*tuitime*.co.nz