



Knowledge grows

# YaraVita™ MANTRAC PRO

A concentrated manganese product formulated for foliar application

Guaranteed Analysis:

Manganese (Mn)	50 %	500 g/l
Nitrogen (N)	6.9%	69 g/l

## Why Foliar Apply?

Foliar sprays ensure precise application of the right nutrient mix at the right time, and can be specifically targeted to the leaf or fruit, to suit an immediate crop need.

Foliar application also provides nutrients for immediate uptake by the leaves or fruits. As a result, the grower is not reliant on the right soil, pH or growing media conditions and can quickly put the crop back on course.

## Manganese requirements:

Manganese is involved in the activation or function of many enzymes in the plant; e.g. detoxification and water splitting enzymes, which provide the oxygen to form carbohydrates for plant growth. Mn deficiency reduces chlorophyll content and Mn is required in lignin manufacture, a decrease in lignin may be why manganese deficient plants have lower resistance to root pathogens such as Take-all in cereals.



## Benefits:

- Formulated for safe application at critical growth stages to satisfy crop requirements
- Widely tank mixable with other crop sprays. Visit [www.tankmix.com](http://www.tankmix.com) for details
- Proven, reliable performance
- Trialled and tested on a wide range of crops around the world
- High quality, consistent products.
- Manufactured to ISO 9001 quality assurance standards
- Easy to use flowable formulation.
- Pours and disperses easily and quickly into the spray tank.
- High nutrient content means lower application rates reducing handling time and waste packaging.

Yara Fertilizers (NZ) Ltd

Tel: +64 6 8776600

Email: [nz.enquiries@yara.com](mailto:nz.enquiries@yara.com)

Website: [www.yara.co.nz](http://www.yara.co.nz)



## Application rates and timings

**Apple:** 1 to 1.5 l/ha prior to flowering in the case of severe deficiency. Otherwise commence applications 4 weeks after petal fall and repeat 10 to 14 days later. Also, 1 to 1.5 l/ha after harvest before leaf senescence. Water rate: 500-1000 l/ha. For improved green background colour with the variety Granny Smith only: 6 applications of 0.75 l/ha from December drop to around 4 weeks pre-harvest. Water rate: 200 l/ha.

**Apricot, Cherry, Nectarines, Peach, Plum:** 1-1.5 l/ha applied from 4 weeks after petal fall and repeated if necessary at 10 to 14 day intervals. Also, 1 l/ha after harvest before leaf senescence. Water rate: 500-1000 l/ha.

**Beans, Peas:** 1 to 1.5 l/ha from start of flowering to swelling of pods. Repeat application if deficiency is severe. Water rate: 50-200 l/ha.

**Brassicac:** 1.25 to 1.5 l/ha from 4 to 9 true leaves. Water rate: 50-500 l/ha.

**Canola:** 1.25-1.5 l/ha from 4 to 9 true leaves. Water rate: 50-500 l/ha.

**Carrots:** 1 to 1.5 l/ha when sufficient leaf area to intercept spray and, if necessary, at 7 to 10 day intervals after this. Water rate: 50-200 l/ha.

**Cereals:** 1 to 2 l/ha from 2 leaf stage to first node detectable (Zadok's G.S. 12 to 31). For moderate to severe deficiency repeat applications at 10 to 14 day intervals. Water rate: 30-200 l/ha. For aerial applications 0.5 l/ha applied at the timings described above. Water rate: 20-50 l/ha.

**Citrus:** 1.25-1.5 l/ha during spring and autumn flushes. Water rate: 500-1000 l/ha.

**Grapevines:** 750 ml/ha at flower truss visible, at flower buds separated and at fruit set. Water rate: 500-1000 l/ha.

**Kiwifruit:** 1 l/ha during extension shoot development and from 2 weeks post petal fall (avoid flowering). Water rate: 500-2000 l/ha.

**Olive:** 1 l/ha. Apply at the start of the season. Repeat applications at 10 day intervals if necessary. Avoid flowering. Water rate: 1000 l/ha.

**Onion:** 1 l/ha when sufficient leaf area to intercept spray. Water rate: 50-200 l/ha.

**Potatoes:** 1 to 2 l/ha at one week after 100% emergence. For moderate to severe deficiency, repeat applications at 10 to 14 day intervals. Also, 1 l/ha following petiole analysis during tuber bulking. Water rate: 30-200 l/ha.

**Strawberry (Field Grown):** 1 l/ha at green bud. Repeat if needed at 10 to 14 day intervals. Water rate: 200-500 l/ha.

## DIRECTIONS FOR USE

ALWAYS FOLLOW THESE LABEL INSTRUCTIONS  
Mix the product thoroughly before use. Slowly add the product to the tank, via the induction hopper, whilst agitating. Top up with water and continue to agitate until spraying is completed.

## TANK MIXING/CO-APPLICATION

Read ALL labels carefully and adhere strictly to the instructions for use. Co-application is entirely at the risk of the end-user. Before co-application of products you, or your advisor, must visit [www.tankmix.com](http://www.tankmix.com) for important information. Alternatively, contact Yara for specific advice

## PRECAUTIONS

Only to be used on protected crops if specifically listed. Avoid application under extremes of climate, e.g. rapid drying conditions, extremely slow drying conditions, frost, rain, or when frost or rain are anticipated. Wear suitable gloves and face shield when handling this product. Clean all equipment before and after use.

## STORAGE

Keep in a cool, dry chemical store, out of reach of children and livestock. Protect from frost and other climatic extremes (temperatures exceeding 40°C). Dispose of contents and container in accordance with all local, regional, national and international regulations

## CONDITIONS OF SALE

This Product is sold subject to the seller's Terms and Conditions of Sale, which are available upon request. Use of the Product is acceptance by the buyer of the Terms and Conditions of Sale.

