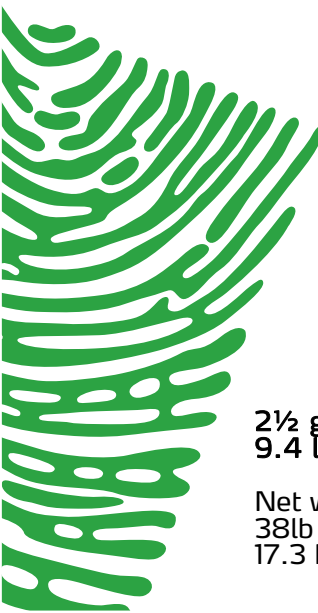




YaraVita™

Mantrac™



2½ gallons/  
9.4 litres

Net weight  
38lb 1oz/  
17.3 kg

**NOTICE**

Before using this product, read the entire label

Safety data sheet available for professional user on request

**Mantrac™**

**3-0-0**

A formulated product for the treatment of manganese deficiency by foliar application

Guaranteed analysis:

**Total Nitrogen (N)**.....**3%**  
3% Urea Nitrogen

**Manganese(Mn)**.....**27.4%**  
Derived from Urea, Manganese Carbonate

Nutrient content per gallon: 4lb 3oz Mn

F1673

**WARNING**

Keep out of reach of children  
Contains manganese compounds and particles in suspension Injurious to health by ingestion or inhalation of excessive quantities Injurious to eyes and skin  
In case of contact with eyes and/or skin, immediately flush with plenty of water and seek medical attention

Information regarding the contents and levels of metals in this product is available on the internet at <http://www.aapfco.org/metals.htm>

This product is recommended for use in conjunction with a complete fertilization program based on soil or tissue analysis.

Contents made in Great Britain  
Guaranteed & Manufactured by Yara Phosyn Ltd., Manor Place, Wellington Road, The Industrial Estate, Pocklington, York YO42 1DN, U.K.  
Manufactured for Yara North America, Inc. 100 North Tampa Street, Suite 3200, Tampa, FL 33602 Customer Service: 800-234-9376

# Mantrac

## APPLICATION RATES AND TIMINGS

**Apples, Pears:** 1 pint/acre prior to flowering in the case of severe deficiency. Otherwise commence at petal fall and repeat 10 to 14 days later. On russet sensitive varieties delay applications until 6 weeks after petal fall.

**Water rate:** 50 to 100 gallons/acre. **Apples only:** For improved green background color (note specified varieties only): 6 applications of 0.25 pint/acre from June drop to around 4 weeks pre-harvest. Also, 1 pint/acre after harvest before leaf senescence. Applies to varieties: Jonagold, Elstar, Cox, Golden Delicious and Granny Smith. **Water rate:** 30 gallons/acre.

**Apricots, Cherries, Nectarines, Peaches, Plums:** 1 pint/acre applied from fruit set. Repeat if necessary at 10 to 14 day intervals.

**Water rate:** 50 to 100 gallons/acre.

**Carrots\* (Field Growth):** 1 pint/acre when crop is 6" tall. For moderate to severe deficiency repeat applications at 10 to 14 day intervals.

**Water rate:** 20 gallons/acre.

**Cole Crops, Broccoli\*, Brussel Sprouts\*, Cabbage\*, Calabrese\*, Cauliflower\*:** 1 pint/acre from 4 true leaves. For moderate to severe deficiency, repeat applications should be made at the above rate at 10 to 14 day intervals. **Water rate:** 20 gallons/acre.

**Cereals\*:** 1 pint/acre 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:** 20 gallons/acre.

**Corn\*, Sorghum:** 1 pint/acre at 4 to 6 leaf stage. For moderate to severe deficiency repeat applications at 10 to 14 day intervals.

**Water rate:** 20 gallons/acre.

**Cucurbits (Field Growth):** 1 pint/acre applied from the 4 to 6 leaf stage onwards. Repeat applications may be necessary for moderate to severe deficiency with a 10 to 14 day interval. **Water rate:** 50 gallons/acre.

**Dry Bean:** For tractor driven sprayers, apply 3 pints/acre at 4 to 6 leaf stage (for deficiency/yield) and 3 pints/acre at start of flowering and end of flowering (for quality). **Water rate:** 25 gallons/acre. For aircraft sprayers, apply 1¼ pints/acre at 4 to 6 leaf stage (for deficiency/yield) and 1¼ pints/acre at start of flowering and end of flowering (for quality). **Water rate:** 5 gallons/acre.

**Nuts (Deciduous):** 1 pint/acre at bud break in spring. Repeat after 15 days if necessary. **Water rate:** 50 gallons/acre.

**Onions\*:** 1 pint/acre two weeks after transplanting, or in the case of direct sown crops, when the crop is 6" tall. Repeat applications at 10 to 14 day intervals. **Water rate:** 20 gallons/acre.

**Peas\*:** 1 pint/acre at 4 to 6 leaf stage (for deficiency/yield) and 1 pint/acre at start of flowering and end of flowering. **Water rate:** 20 gallons/acre.

**Potatoes\*:** 1 pint/acre at one week after 100% emergence and following petiole analysis during tuber bulking. For moderate to severe deficiency, repeat applications at 10 to 14 day intervals. **Water rate:** 20 gallons/acre.

**Soybeans\*:** 1 pint/acre when crop is 2 to 6 inches tall (4 to 6 leaves). Repeat at 10 to 14 day intervals as necessary, up to immediately pre-flowering. **Water rate:** 20 gallons/acre.

**Strawberries (Field Growth):** 1 pint/acre at green bud. Repeat if needed at 10 to 14 day intervals. **Water rate:** 50 gallons/acre.

**Tomatoes (Field Growth):** 1 pint/acre at the 4 to 6 leaf stage and repeated 10 to 14 day intervals if required by moderate to severe deficiency.

**Water rate:** 50 gallons/acre

**Vines:** 1 pint/acre at flower buds visible, flower buds separated and at fruit set. **Water rate:** 50 to 100 gallons/acre.

\* **For use in Wisconsin:** Mantrac can be applied to this crop in Wisconsin requiring a medium to high level of manganese.

## DIRECTIONS FOR USE

ALWAYS FOLLOW THESE LABEL INSTRUCTIONS.

*Mix the product thoroughly before use.* Pour through the top filter into the tank three-quarters filled with water, while agitating. Top up with water and continue to agitate until spraying is completed.

**Extended recommendations available**  
[www.yaraphosyn.com/usinfo.html](http://www.yaraphosyn.com/usinfo.html)

## TANK MIXING/CO-APPLICATION

Read ALL labels carefully and adhere strictly to the instructions for use and advice regarding whether or not product(s) should be co-applied. Many variables, outside the control of YARA PHOSYN, can influence the performance of co-applied products and therefore co-application is entirely at the risk of the end-user. It is strongly recommended that a limited application is made initially when using unfamiliar product mixes. *Before co-application of products you, or your advisor, must visit [www.tankmix.com](http://www.tankmix.com) for important information. Alternatively, contact YARA NORTH AMERICA 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 faceshield 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 (39°F) and other climatic extremes. (temperatures exceeding 100°F)*

## CONDITIONS OF SALE - LIMITED WARRANTY AND LIMITATIONS OF LIABILITY AND REMEDIES

The directions on this label are believed to be reliable and should be followed carefully. Insufficient remedy of nutritional problems on the crop to which the product is applied may result from the occurrence of extraordinary or unusual weather conditions, the failure to follow the label directions, or good application practices, all of which are beyond the control of YARA PHOSYN or the seller. In addition, failure to follow label directions may cause injury to other crops, animals, man or the environment. YARA PHOSYN warrants that this product conforms to the chemical description on the label and is reasonably fit for the purpose referred to in these directions for use subject to the factors noted above which are beyond the control of YARA PHOSYN. YARA PHOSYN makes no other warranties or representations of any kind, express or implied, concerning the product, including **no implied warranty of merchantability or fitness for any particular purpose** and no such warranty shall be implied by law. The exclusive remedy against YARA PHOSYN for any cause of action relating to the handling or use of this product is a claim for damage and in no event shall damages or any other recovery of any kind against YARA PHOSYN exceed the price of the product which causes the alleged loss, damage, injury, or other claim. YARA PHOSYN shall not be liable and any and all claims against YARA PHOSYN are waived, for special, indirect, incidental, or consequential damages or expenses, of any nature, including, but not limited to, loss of profits or income, whether or not based on YARA PHOSYN's negligence, breach of warranty, strict liability in tort or any other cause of action. YARA PHOSYN and the seller offer this product and the buyer and user accept it, subject to the foregoing conditions of sale and limitation of warranty, liability and remedies.