Knowledge grows

YaraVita® BORTRAC™

Foliar Boron 10.9% B

A concentrated boron product formulated for foliar application	
Guaranteed Analysis: soluble in water	
Boron (B) (actual)	10.9% w/w

Boron deficient canola

Boron deficient corn

The Need for Boron

Boron is an *essential* nutrient needed for production of nucleic acid and plant hormones, the movement of plant sugars, and most importantly, flower and fruit development. Though much less boron is needed than nitrogen, low boron supply causes a yield decline the same as low nitrogen supply.

Be cautious interpreting soil-test boron levels because boron is highly variable across very short distances in the field, and the boron soil test is the weakest of all the analytical tests done on a soil sample. Soil and fertilizer boron are subject to leaching with rainfall, and crops can be subject to a temporal boron deficiency when precipitation has been "good".

Benefits

- A highly effective foliar boron backed up by Yara's global research program
- Lowest price per gram of actual boron in the Prairie marketplace
- Highly concentrated formulation means less product storage and handling
- Compatible with most pesticides

Product Recommendations

Apples, Pears:
1 l/ha (.40 l/ac) at pink bud, start of flowering and again at petal fall. 2 l/ha (.81 l/ac) after harvest but before leaf senescence. Water rate: 500 to 1,000 l/ha (200-400 l/ac).

Stonefruit (Apricots, Cherry, Peaches, Plums):
1 l/ha (.40 l/ac) at winter bud and again at pink bud. 2 l/ha (.81 l/ac) after harvest but before leaf senescence.
Water rate: 500 to 1,000 l/ha (200-400 l/ac).

Asparagus:
2 to 4 l/ha (.81-1.62 l/ac) applied to ferns prior to senescence. Water rate: 50 to 200 l/ha (81 l/ac)

Beans:
2 l/ha (.81 l/ac) at the 5 to 15 cm stage. For moderate to severe deficiency, repeat the application 10 to 14 days later. Water rate: 200 l/ha (81 l/ac).

Blueberries:
2 l/ha (.81 l/ac) applied just before the onset of leaf drop. Repeat the application at bud separation, the following fruiting season. Water rate: 200 l/ha (81 l/ac).

Brassicas:
3 l/ha (1.21 l/ac) at 4 to 6 leaf stage. For moderate to severe deficiency repeat the application 10 to 14 days later. Water rate: 200 l/ha (81 l/ac).

Carrots:
3 l/ha (1.21 l/ac) at 10 to 15 cm stage. For moderate to severe deficiency repeat the application 10 to 14 days later. Water rate: 200 l/ha (81 l/ac).

Canola:
For a moderate deficiency (0.6-1.2 ppm B in the 0-6" soil depth) a single application of 0.4 L/ac Bortrac can be applied anytime from the 4 to 6 leaf stage up to 10% bloom. For severe deficiencies (<0.6 ppm B in the 0-6" soil depth) split applications where 0.2 L/ac of Bortrac is applied at the 4-6 leaf stage and 0.4 L/ac is applied up to 10% bloom are superior, however, 0.6 L/ac can also be applied once at the onset of stem extension.

Cucurbits (Field Grown):
2 l/ha (.81 l/ac) at 4 leaf stage. For moderate to severe deficiency repeat the application 10 to 14 days later. Water rate: 200 l/ha (81 l/ac).

Maize (Corn):
3 l/ha (1.21 l/ac) at 6 to 8 leaf stage. For moderate to severe deficiency, repeat applications at 10 to 14 day intervals. Water rate: 30 to 200 l/ha (81 l/ac).

Peas:
2 l/ha (.81 l/ac) at 10 to 15 cm stage. For moderate to severe deficiency, a repeat application may be necessary 10 to 14 days later. Water rate: 50 to 200 l/ha (20-81 l/ac).

Potatoes:
1 l/ha (.40 l/ac) 10-14 days after 100% emergence. Also apply during tuber bulking following petiole analysis. Water rate: 50 to 200 l/ha (81 l/ac).

Soil Application
All Crops: 5 l/ha (2 l/ac) applied pre-planting or pre-emergence. Water rate: 50 l/ha (20.23 l/ac) minimum.

Soy Bean:
2 l/ha (.81 l/ac) at 5 to 15 cm stage. For moderate to severe deficiency, repeat applications at 10 to 14 day intervals. Water rate: 200 l/ha (81 l/ac).

Strawberry (Field Grown):
2 l/ha (.81 l/ac) applied to regrowth foliage (after harvest). Water rate: 200 to 500 l/ha (81-200 l/ac).

Sugar Beet:
3 l/ha (1.21 l/ac) at 4-6 leaf stage. For moderate to severe deficiency, repeat applications at 10-14 day intervals. Water rate: 200 l/ha (81 l/ac).

Tobacco:
Two applications of 2 l/ha (.81 l/ac) two to three weeks after transplanting (3 to 4 leaf stage) with 10 days between applications. Water rate: 200 to 500 l/ha (81-200 l/ac)

Tomatoes (Field Grown):
2 l/ha (.81 l/ac) when plants are at 4 to 6 leaf stage. For moderate to severe deficiency, repeat applications at 10 to 14 day intervals. Water rate: 400 l/ha (161.88 l/ac).

Vines:
1 l/ha (.40 l/ac) at flower buds separated and at fruit set. Water rate: 200 l/ha (81 l/ac).

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