

# Boron Source & Availability

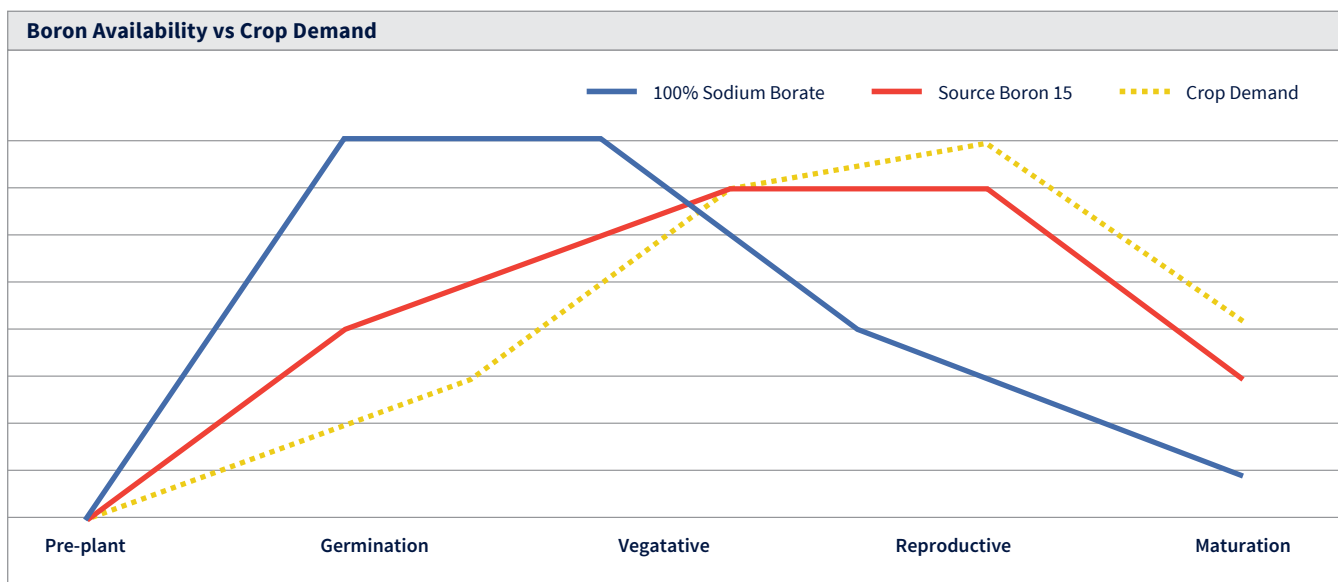
Boron is an essential micronutrient for the growth and development of plants. Unfortunately, it is very mobile in the soil and can easily leach out of the root zone, especially in sandy soils or areas of excess precipitation. It is important to use a boron source that will be available later in the growing season at peak crop demand. There are several types of granular boron sold in the market today, but one has a better agronomic fit based on availability in the soil and crop demand.

Some products contain a very high percentage of the mobile sodium borate (100%) compound, making them very susceptible to leaching. Nutrient requirements usually increase with the growth of the plant. If boron is unavailable at critical growth stages, the deficiency can inhibit development and potentially reduce yield.

**Source Boron 15** contains two boron compounds; immediately soluble sodium borate (50%) and slowly mineralized calcium borate (50%). The sodium borate portion is fast acting while the calcium borate compound mineralizes into sodium borate 4 to 6 weeks after application. This gives the product slow-release properties. As seen in the table below, the timely release of the nutrient closely matches the demand of the crop.

## Boron's role in plant development

- Root growth
- Sugar transport
- Pollen production and viability
- Cell wall structure and syntheses
- Phosphorus and potassium uptake



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