NDemand® Foliar Nutrition for Corn at V5 and VT

North Dakota and Minnesota

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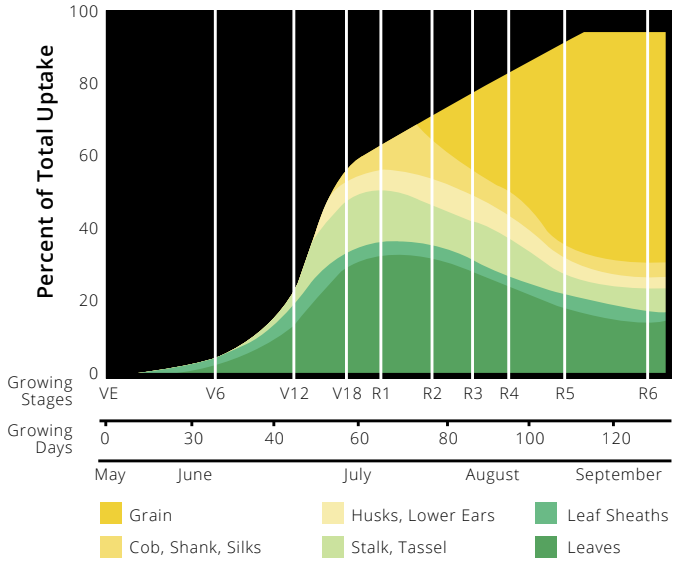
Nitrogen Requirements in Corn

High yielding corn requires large amounts of nitrogen (N) throughout the growing season. A 200 bu/A yielding crop takes up about 250-275 lb N per acre.

Nitrogen Requirements in Corn



One of the critical corn growth stages is the early vegetative period between V4-V6 where ear formation, specifically the number of kernel rows, is determined. This developmental process can be affected by moisture and nitrogen. Furthermore about 1/3 of the total N requirement takes place post tassel (VT), as can be seen in the chart above.

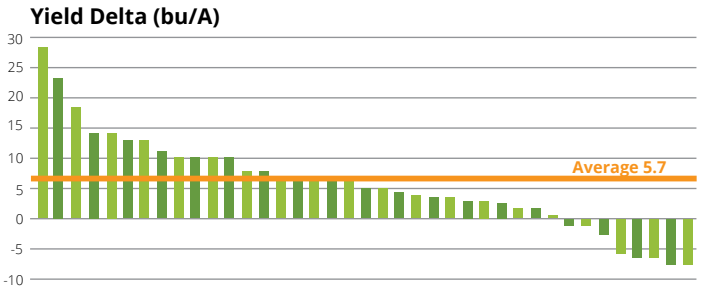
NDemand Foliar Nutrients

NDemand products are high analysis liquid polymer nitrogen solutions (with or without micronutrients) that fit in well with herbicide, fungicide, or insecticide applications. The advantage with NDemand's immediate foliar uptake is that applications can be timed to precisely the correct stage of crop growth such as early ear formation in corn. Later applications of NDemand products, such as with fungicides, may also enhance yield and grain quality.

NDemand 30L Results

39 research trials conducted over a four-year period showed applications of NDemand 30L increased yields on average 5.7 bu/A.

Multi-Year NDemand 30L Foliar Summary on Corn



Each bar represents yield gain over untreated check from a single treatment plot out of a total of 39 trials.

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Multiple Benefits of NDemand

Crop safety.
NDemand has an ultra-low salt index and is very safe for treated plant tissues.

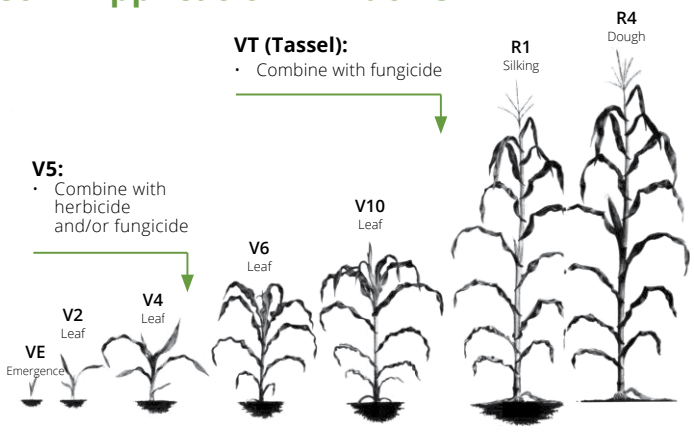
Immediate crop response.
NDemand is often referred to as "slow-release nitrogen," but this only applies to soil applications. Foliar applications of NDemand polymer nitrogen result in very rapid uptake and conversion to amino acids, which are the building blocks of protein.

Superior uptake efficiency.
In addition to crop safety and rapid plant uptake, university research has also shown NDemand to be superior in terms of uptake efficiency compared to urea.

Application convenience.
NDemand may be applied by air or ground with herbicide, insecticide, or fungicide applications. This eliminates an application, reduces application cost, and saves time.

Humectant properties – stays wet longer.
NDemand's unique polymer chemistry acts as a powerful humectant, meaning it absorbs atmospheric moisture and remains wet on the leaf longer than conventional nitrogen sources. This property aids foliar uptake and may benefit the uptake of co-applied products such as fungicides or insecticides.

Corn Application Windows



http://www.cnppid.com/Assets/Corn_Growth_Stages.jpg

NDemand Products

NDemand 30L
30-0-0

NDemand HIGH END®
26-0-0 with boron, chelated zinc, manganese, and copper

NDemand 88
10-8-8 with sulfur, boron, chelated zinc, manganese, and copper

Recommended Program

Early Season Herbicide and/or Fungicide Timing (V5):

- 2-4 qt of NDemand 88

Late Season Fungicide Timing (Tassel):

- 1-2 gal of NDemand 30L or
- 1-2 gal of NDemand HIGH END

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