

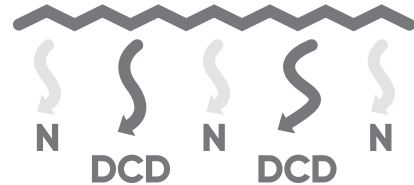
Soil Stability

Optinyte[®] Technology (Nitrapyrin) vs. DCD (Dicyandiamide)

Stable



Susceptible to Leaching



N-Serve[®] and Instinct NXTGEN[®] Nitrogen Stabilizers

Results showed that on average, N leaching decreased by 16 percent and soil N retention increased by 28 percent. In more than 75 percent of individual comparisons, use of a nitrification inhibitor increased soil N retention and decreased N leaching and volatilization.

16% Less Leaching

28% Increase in Soil Retention

Source: Wolt, J. D. 2004. A meta-evaluation of nitrapyrin agronomic and environmental effectiveness with emphasis on corn production in the Midwestern USA.

Nutr. Cycl. Agroecosyst. 69: 23-41. doi:10.1023/B:FRES.0000025287.52565.99.

DCD

DCD is water soluble and can leach away with the first significant rainfall event in contrast to Instinct and N-Serve, which remain in the root zone protecting your nitrogen from losses.

Source: Laboratory evaluation of dicyandiamide as a soil nitrification inhibitor | Communications in Soil

"DCD is readily leached, lowering its effectiveness."

Source: International Plant Nutrition Institute | Nitrification Inhibitors

McCarty G. W., and J. M. Bremner. 1989. Laboratory evaluation of dicyandiamide as a soil nitrification inhibitor. *Comm Soil Sci Plant Anal.* 20: 2049-2065.5

International Plant Nutrition Institute. Nitrification Inhibitors. [http://www.ipni.net/publication/nss.nsf/0/21B8084A341C98E085257E3C0077595B/\\$FILE/NSS-26%20Nitrification%20Inhibitors.pdf](http://www.ipni.net/publication/nss.nsf/0/21B8084A341C98E085257E3C0077595B/$FILE/NSS-26%20Nitrification%20Inhibitors.pdf)

Inoue, K., T. Sakamoto, J. Z. Min, K. Todoroki and T. Toyooka. 2014. Determination of dicyandiamide in infant formula by stable isotope dilution hydrophilic interaction liquid chromatography with tandem mass spectrometry. *Food Chemistry* 156: 390-393.



For more information visit [NutrientMaximizers.com](https://www.nutrientmaximizers.com) or contact your local Corteva Agriscience[™] territory manager.

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