



Stabilize Nitrogen, Maximize Investment

Nitrogen loss can be a serious problem impacting yield potential and return on investment. Depending on the soil type, nitrogen fertilizer is susceptible to losing more than 40% of its nitrogen through ammonia volatilization, denitrification and nitrate leaching. No matter the nitrogen loss pathway, Heritage Cooperative has the solution for your operation. Nitrogen stabilizers deliver maximum profit by extending nitrogen availability during the key growth stages of corn.

Stabilizer Products to Consider

Finding the nitrogen stabilizer that works best for you will depend on the nitrogen source you use and the timing of your applications.

N-Serve™

[N-Serve™](#) nitrogen stabilizer delivers maximum profit by extending nitrogen availability during corn's key growth stages. It works underground, where up to 70 percent of nitrogen loss can occur through leaching into the ground or denitrification into the atmosphere. Corn uses nitrogen in two forms: ammonium (NH_4^+) and nitrate (NO_3^-). But it prefers ammonium – because that form is more efficient for plants to use and less susceptible to loss. But nitrate nitrogen can't help corn if it's beyond the reach of the plants' roots during critical growth times. N-Serve acts to slow down the bacteria that converts ammonium to nitrate, keeping nitrogen in the ammonium form longer. That means it's there when corn is ready for it – so the crop can reach its maximum yield potential

Anvol®

[Anvol®](#) nitrogen stabilizer is the next-generation nitrogen stabilizer built to maximize nitrogen availability and return on investment. ANVOL features Duromide, a patented active ingredient delivering the longest-lasting protection against nitrogen volatilization for surface applications of UAN or Urea.



Instinct NXTGEN®

Optinyte™ technology

NITROGEN STABILIZER

Protect the Environment

[Using nitrogen stabilizers](#) helps to keep nutrients on your field and out of our waterways, protecting water resources on both a local and national level. Stabilizers are also particularly useful for decreasing loss of nitrogen to the atmosphere when fertilizers are not incorporated, such as in no-till systems. Our stabilizers are part of the [4R Nutrient Stewardship Program](#).

- 51% fewer greenhouse gas emissions
- 16% less nitrogen leaching
- 28% greater soil retention

Contact your [Heritage agronomist](#) for more information about which nitrogen stabilizer works best for your operation.