

Enhanced Report Features: FAQs

Novel **Forage Nitrate Nitrogen indications** now appear on Rock River Laboratory nutrition analysis reports. These are the results of groundbreaking machine learning model development. With these new indications, we're venturing into a new era of reporting by predicting the likelihood of a categorical outcome - in addition to our numerical data reporting. Below are some commonly asked questions to help guide you and your team in utilizing this new feature to dial in feedstuffs and rations on your customers' farms.

Q: What does the new verbiage on the Forage Nitrate Nitrogen line item indicate?

A: Forages possibly or likely contaminated with Nitrate-N will now report:

- "Possible Nitrate-N detected; consider wet chemistry Nitrate-N analysis"
- "Likely Nitrate-N detected; wet chemistry Nitrate-N analysis advised"

'Possible Nitrate-N detected' is associated with a 1,000 ppm or greater level. 'Likely Nitrate-N detected' is associated with a 2,000 ppm or greater level. Users may reference our [Forage, Feed, and Water Nitrate Guidelines and Dietary Limits for Cattle, here](#). In both cases, users can request Nitrate-N analysis by wet chemistry using the same sample initially analyzed by NIR.

Q: Why the change from levels (reported as numbers) to categories (reported as words)?

A: Artificial intelligence-built models developed by collaborative experts, using machine learning methods, have unlocked fresh potential for NIRS analysis and reporting. We consider these new categorical predictions an opportunity to better serve our customers by supplying additional information to guide decision-making within the realm of Nitrate-N.

Our goal is always to equip our customers with unmatched tools and insights intended to facilitate impactful and positive decisions. This is the perfect opportunity to utilize our advanced tools to do so.

Q: How do I add these new line items to the packages I select?

A: These new indications are included with Comprehensive Nutrition Analysis (CNA) by NIR, available for applicable feed types. The Nitrate-N indications are available through all Rock River Laboratory-powered locations worldwide.