

Enhanced Report Features: FAQs

NIRS Kernel Processing Score (KPS) 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 these new features to dial in feedstuffs and rations on your customers' farms.

Q: What does the new verbiage on the KPS line item indicate?

A: 'Likely above 70' denotes a high probability of a KPS at or above 70; alternatively, 'Likely below 70' depicts the opposite. This innovative NIR model, developed using advanced machine learning methods never previously attempted, provides users with a KPS indication. For samples likely below 70, producers should consider analyzing KPS with traditional benchtop methods.

The 70% threshold has been a long-standing goal, and our current interpretive guidelines for standard KPS test results [can be found and downloaded here](#).

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

A: Artificial intelligence-built models developed by expert partners, 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 realms of KPS.

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 KPS indications are available through all Rock River Laboratory-powered locations worldwide.